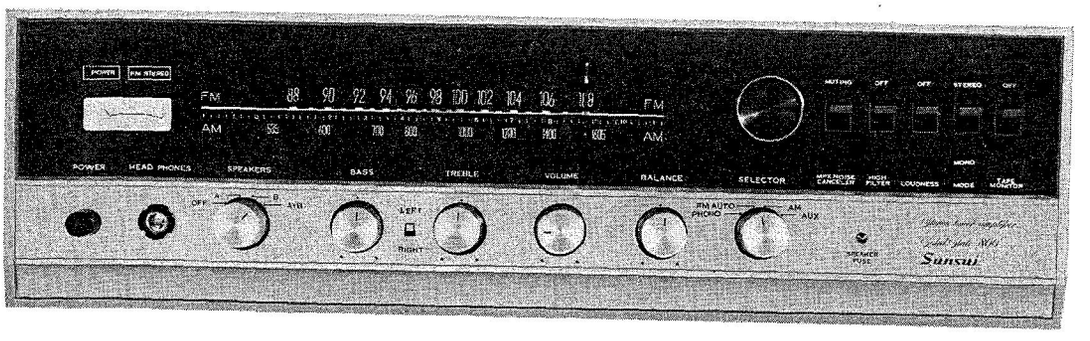
SERVICE MANUAL

AM/FM STEREO TUNER AMPLIFIER

SANSUI 800



Sansui®

SANSUI ELECTRIC COMPANY LIMITED

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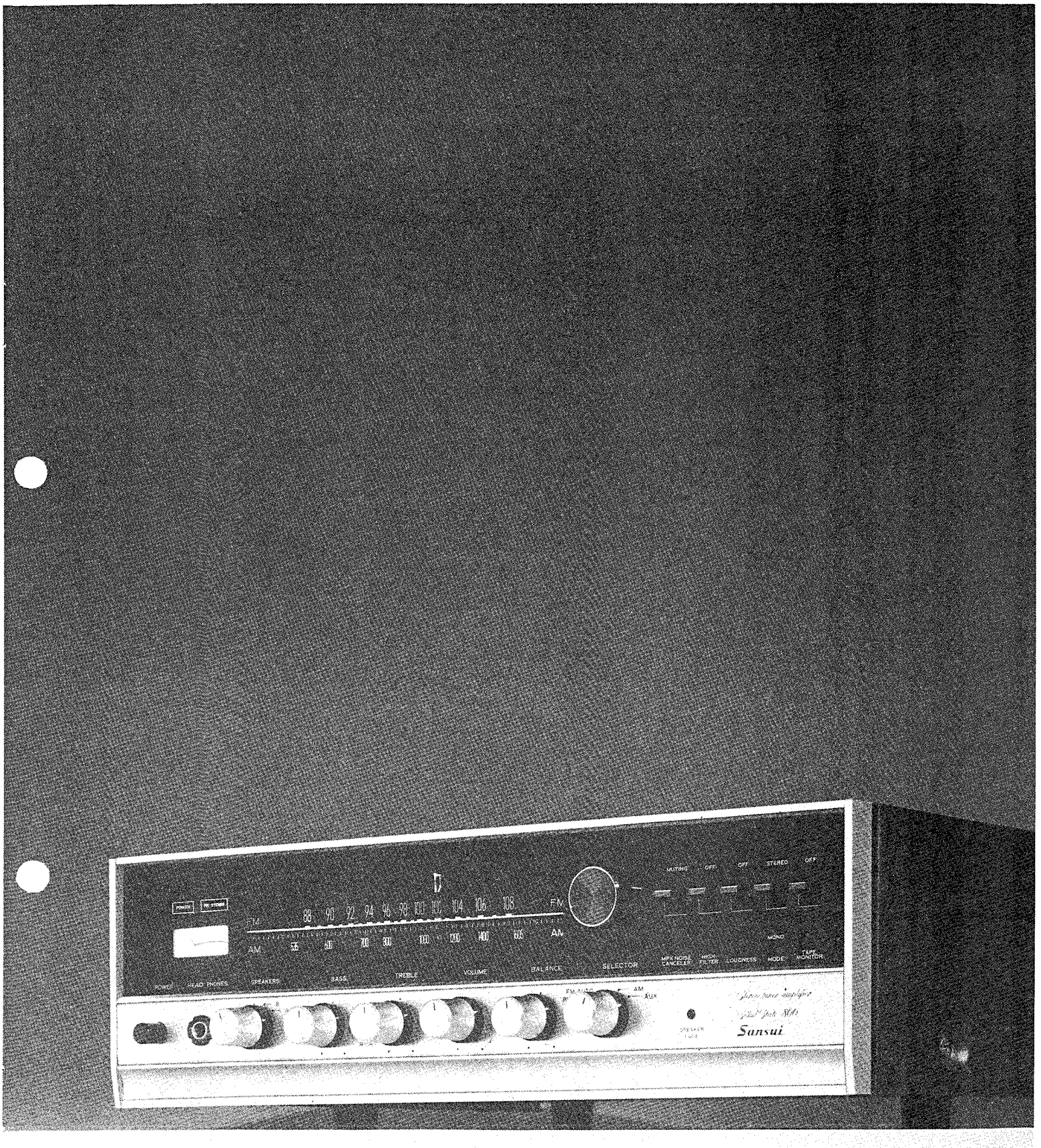

POWER
FM STEREO
FM
88 90 92 94 96 98 100 102 104 106 108 F.M.
AM
AM 55 60 70 80 100 200 400 600 AM
MUTING
OFF
OFF
STEREO
OFF
MONO
POWER
PHONES
SPEAKERS
BASS
TREBLE
VOLUME
BALANCE
SELECTOR
MPX NOISE CANCELER
HIGH FILTER
LOUDNESS
MODE
TAPE MONITOR
FM
AM
AUX
Sansui

GENERAL SECTION

If the amplifier is otherwise operating satisfactorily, the more common causes of trouble may generally be attributed to the following:
1. Incorrect connections or loose terminal contacts. Check the speakers, record player, tape recorder, antenna and line cord.
2. Improper operation. Before operating any audio component, be sure to read the manufacturer's instructions.
3. Improper location of audio components. The proper positioning of components, such as speakers and turntable, is vital to stereo.
4. Defective audio components.

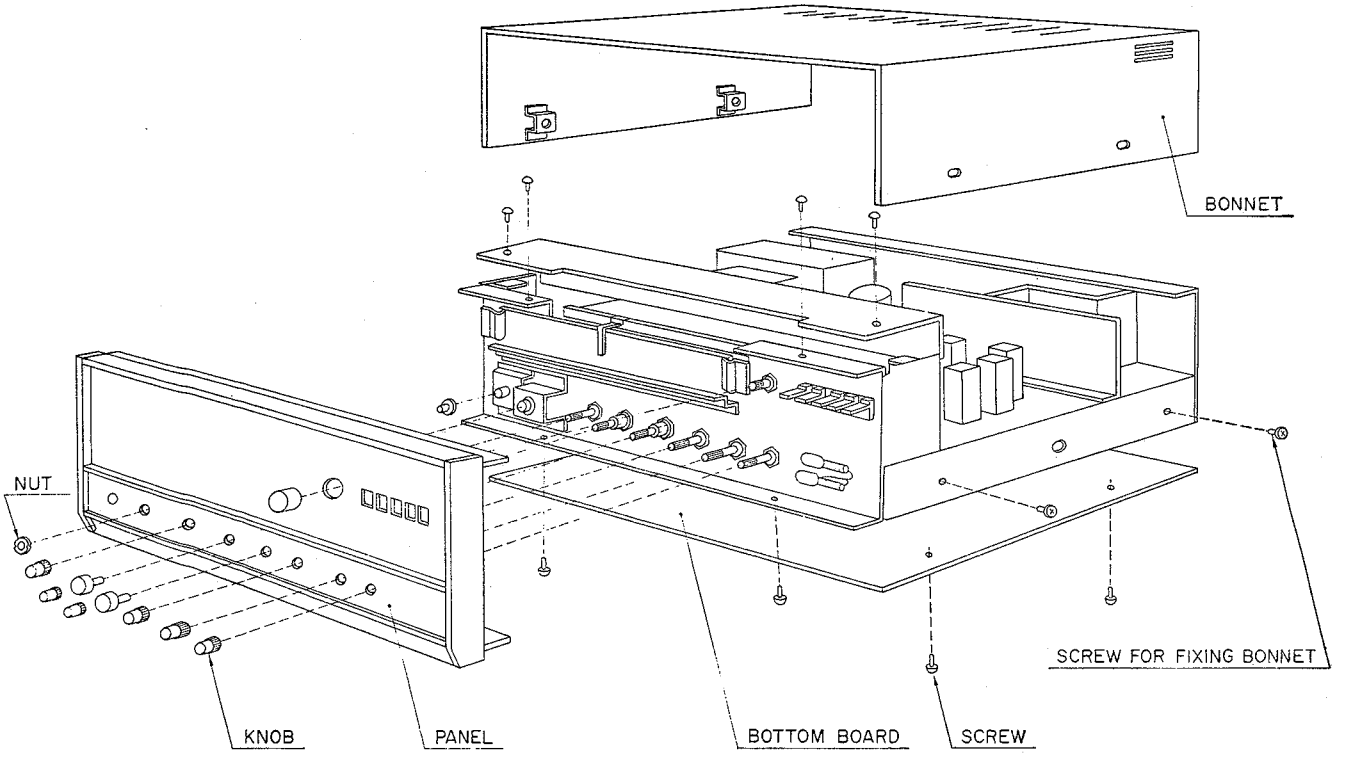
Following are some other common causes of malfunction and what to do about them:

PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
AM, FM or MPX reception	A. Constant or intermittent noise heard at certain times or in a certain area.	* Discharge or oscillation caused by electrical appliances, such as fluorescent lamps, TV sets, D.C. motors, rectifier and oscillator * Natural phenomena, such as atmospheric, static, and thunderstorms. * Insufficient antenna input due to reinforced concrete walls or long distance from the station * Wave interference from other electrical appliances	* Attach a noise limiter to the electrical appliance that causes the noise, or attach it to the power source of the amplifier. * Install an outdoor antenna and ground the amplifier to raise the signal-to-noise ratio. * Reverse the power cord plug-receptacle connections. * If the noise occurs at a certain frequency, attach a wave trap to the ANT. input. * Place the set away from other electrical appliances.
	B. Needle of the tuning meter does not move sharply.	* Needle movement is not necessarily related to the sensitivity of the amplifier.	* Tune the set for maximum signal strength.
	C. Zero point of the meter moves greatly.	* Regional difference in field intensity.	* The unit is not at fault.
AM reception	A. Noise heard at a particular time of day, in a certain area or over part of the dial.	* Natural AM reception phenomenon.	* Install an antenna for maximum antenna efficiency. See "ANTENNA" in the Operating Instructions. * In some causes, the noise can be eliminated by grounding the amplifier or reversing the power cord plug-receptacle connections.
	B. High-frequency noise	* Adjacent-channel interference or beat interference * TV set is too close to the audio system	* Although such noise cannot be eliminated by the amplifier, it is advisable to turn the TREBLE control from midpoint to left and switch on the HIGH FILTER. * Place the TV set away from the audio system.
FM reception	A. Noisy	* Poor noise limiter effect or too low S/N ratio due to insufficient antenna input.	* Adjust the antenna provided for maximum signal strength. * If this is not effective, use an out door antenna designed exclusively for FM. When you use a TV antenna for both TV and FM with a divider, make sure TV reception is not affected. * An excessively long antenna may cause noise.
	NOTE: FM reception is affected considerably by the conditions of the transmitting stations power and antenna efficiency. As a result, you may receive one station quite well while having difficulty receiving another station.		

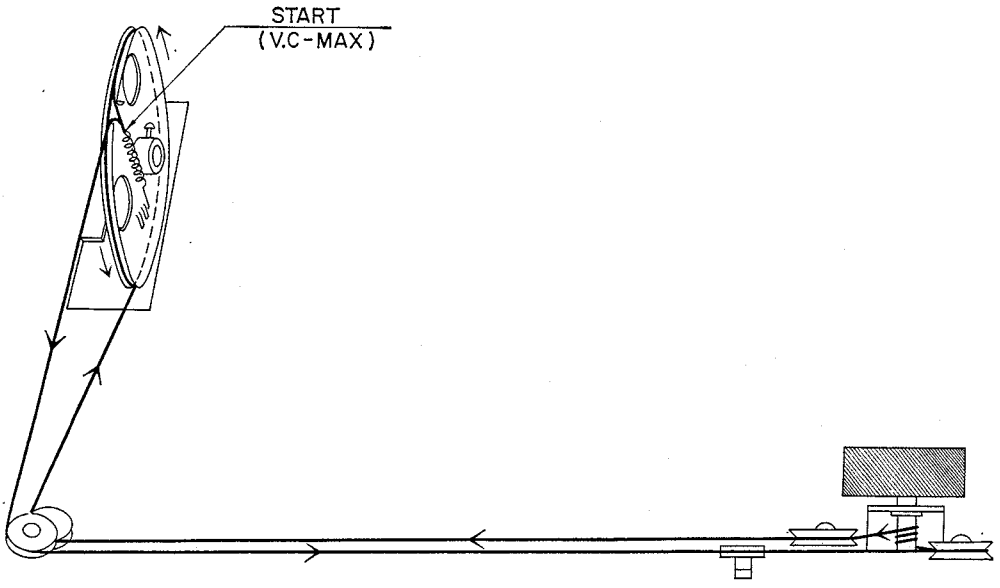
PROGRAM	SYMPTOM	PROBABLE CAUSE	WHAT TO DO
FM reception (Cont'd)	B. "Scratch-like" noise is heard	* Ignition noise caused by the starting of an automobile.	* Install the antenna and its lead-in wire away from the road or raise the antenna input as previously described.
	C. Tuning noise between stations	* This noise results from the nature of FM reception. As the station signal becomes weak, the noise limiter effect is decreased. The amplification of the limiter, in turn, is enlarged and a noise is generated.	* Turn on the MUTING switch. Since it also reduces the sensitivity, it should be used sparingly.
FM-MPX reception	A. Noise heard during FM-MPX reception while not heard during FM mono reception	* The service area of the FM-MPX broadcast is only half that of the FM mono broadcast.	* Install the antenna for maximum antenna input. * Switch on the HIGHFILTER and/or turn the TREBLE control from midpoint to left.
	B. Clearness of channel separation is decreased during reception.	* Excess heat	* Make sure that air can flow underneath the amplifier.
	C. The stereo indicator goes on and off.	* Interference * Station signal is weak	* The indicator is not at fault.
	D. The stereo indicator goes on and off even though a stereo station is not received.	* Interference	* The indicator is not at fault.
Record playing or tape playback	A. Hum or howling	* Record player placed directly on the speaker box. * Use of unshielded wire. * Loose terminal contact. * Shielded wire too close to line cord fluorescent lamp or other electrical appliances. * Nearby amateur radio station or TV transmission antenna.	* Put a cushion between the player. and the speaker box or separate them. * The connecting shield wire should be as short as possible. * Turn the BASS control from midpoint to left. * Consult the nearest Radio Regulatory Bureau.
	B. Surface noise	* Worn or old record * Worn pick-up needle * Dusty needle * Improper needle pressure	* Recondition the playback head of the tape recorder or the pick-up of the record player. * Turn the TREBLE control properly from midpoint to left. * Switch on the HIGH FILTER.
Overall stereo program	The BALANCE control is not at midpoint when equal sound comes from left and right channels.	* It is important to adjust the control for equal sound from both channels. It should not always be set to midpoint.	* Set the MODE switch to the MONO position and then set the BALANCE control to the position where equal sound comes from both channels.

DISASSEMBLY PROCEDURE

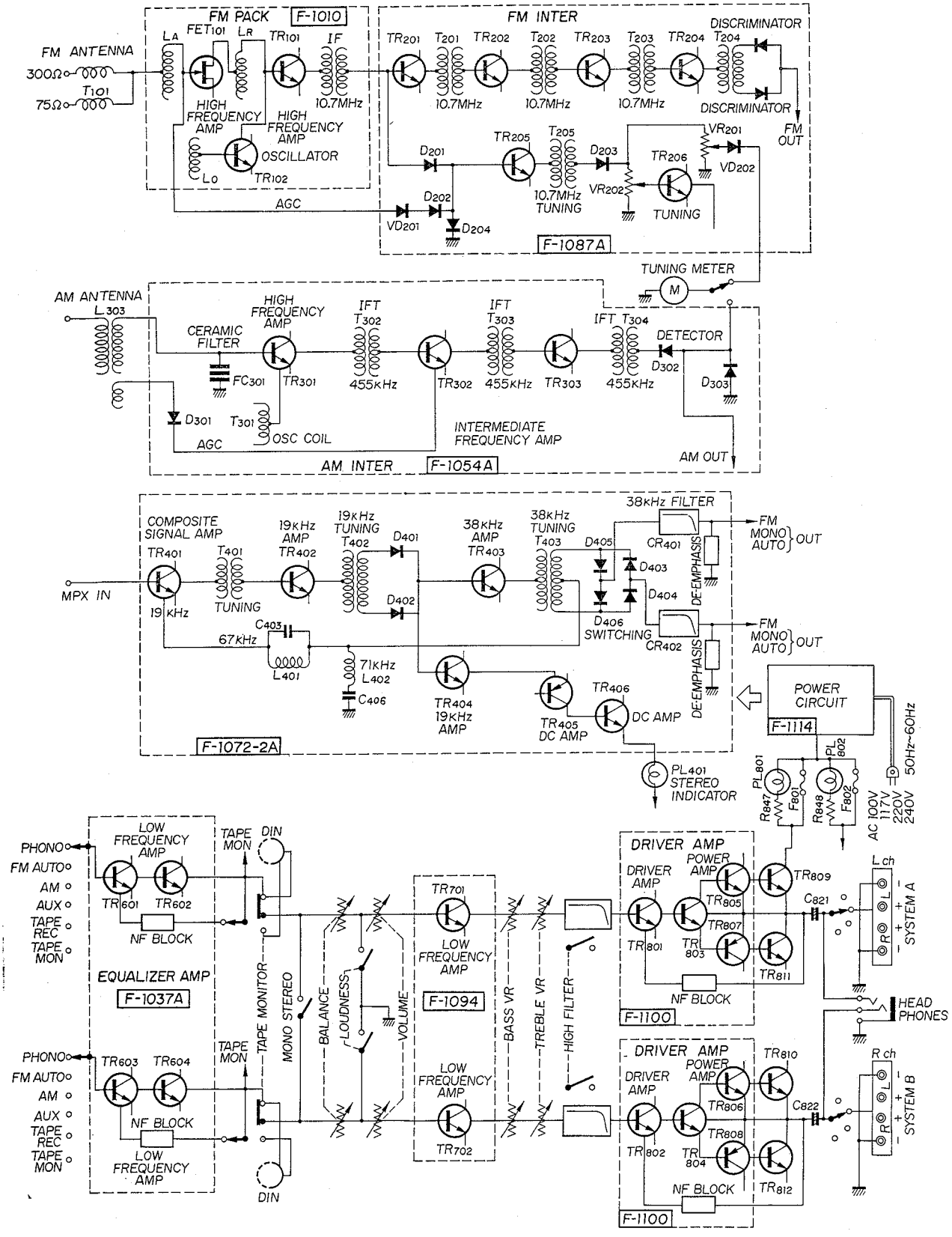
REMOVING THE FRONT PANEL, BONNET AND BOTTOM PLATE



DIAL MECHANISM



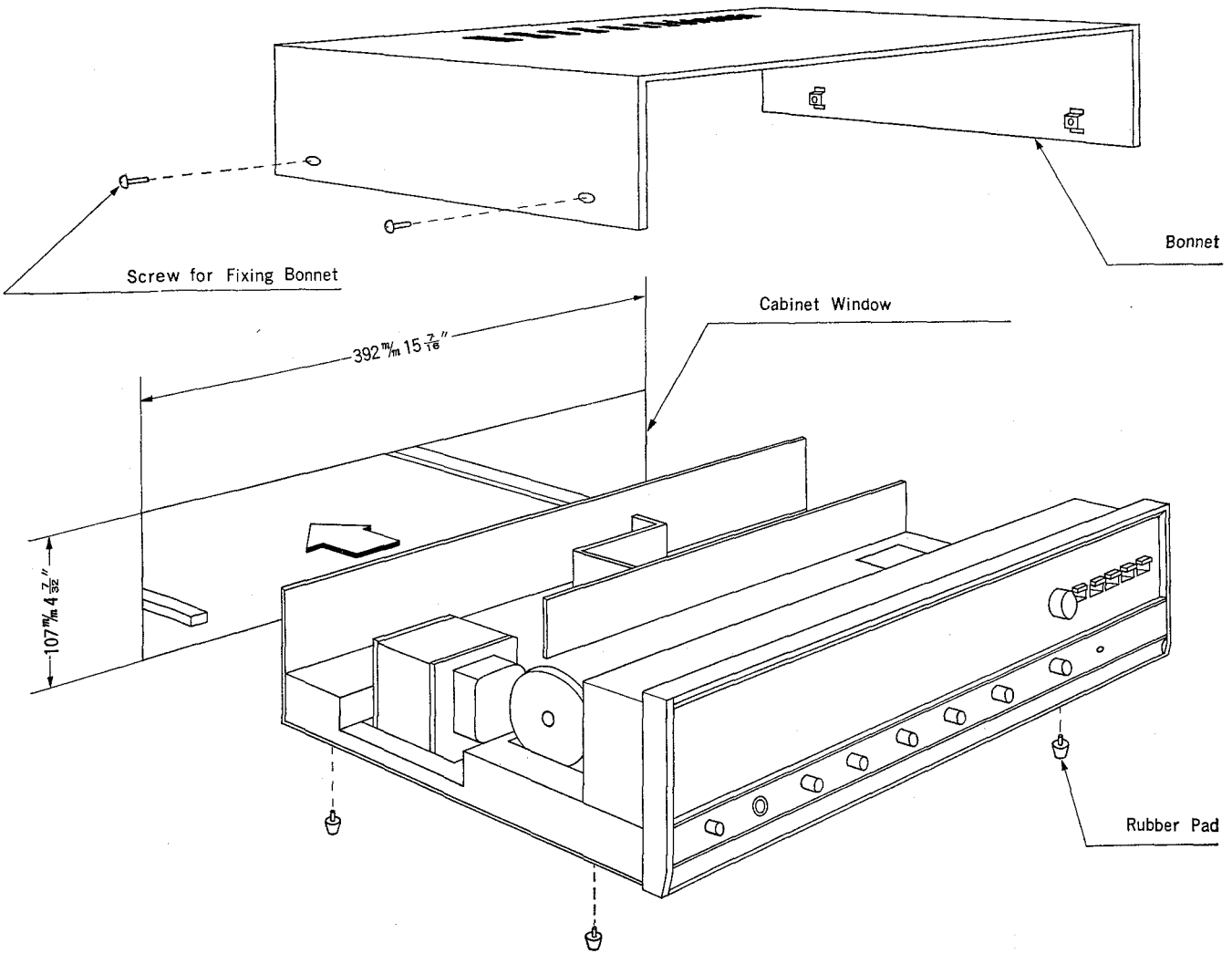
BLOCK DIAGRAM

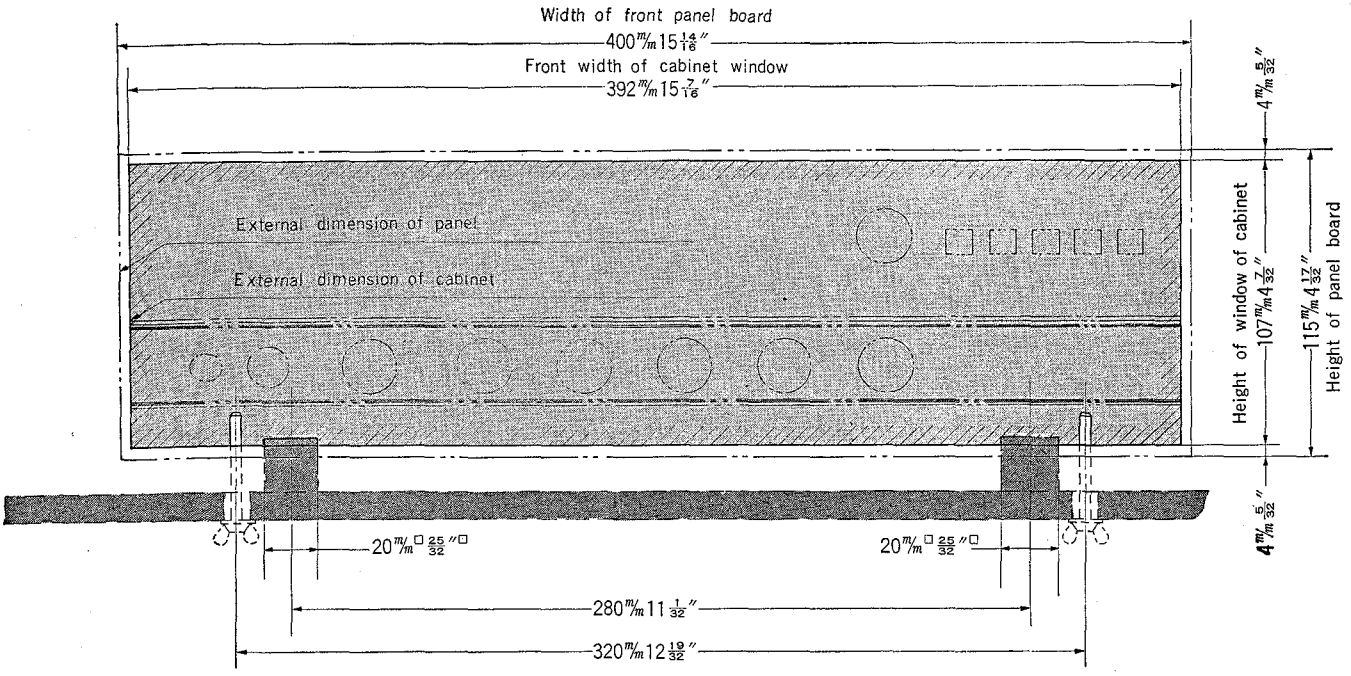


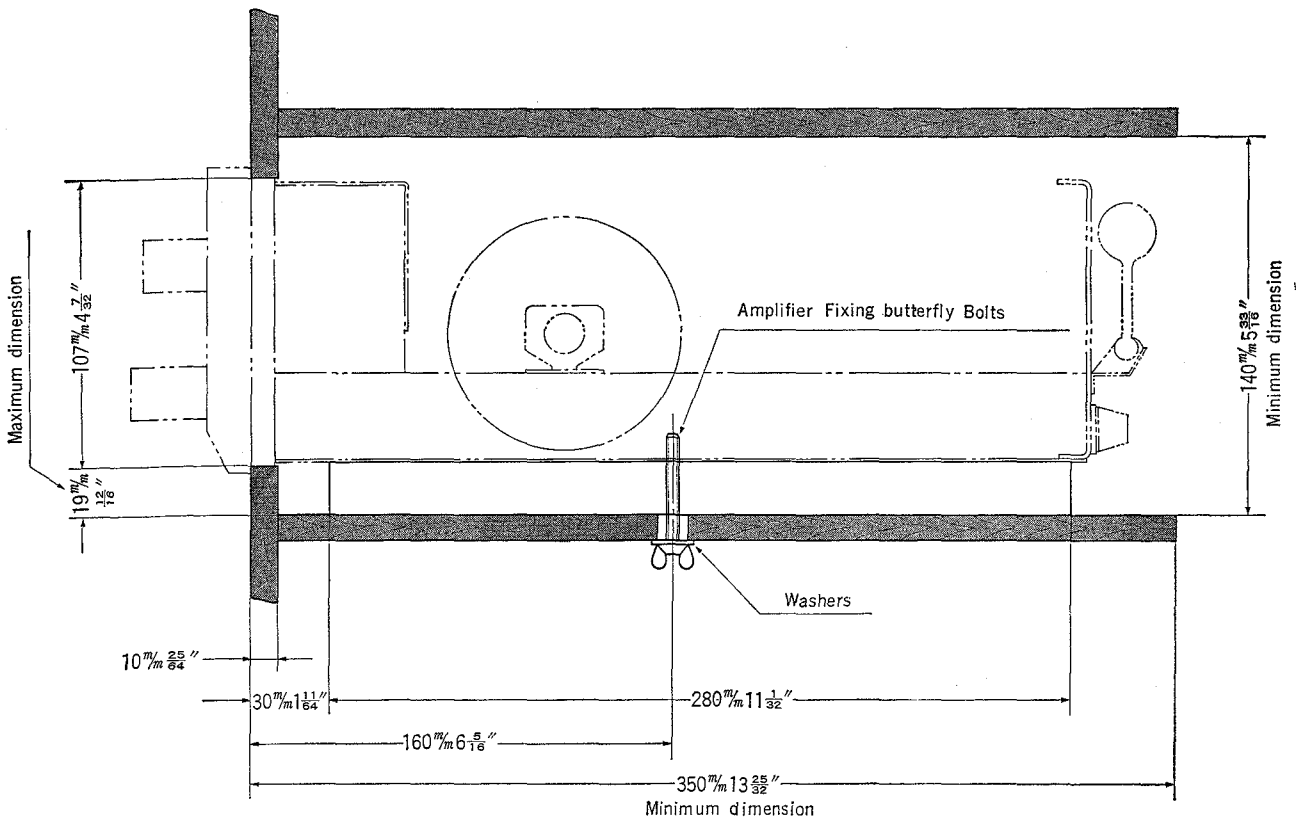
MOUNTING TEMPLATE

1. Make a cabinet window of 392 mm or 15 7/16" in width and 107 mm or 4 7/32" in height.
2. Place two square pieces of food (20 × 20 × 280 mm or 25/32" × 25/32" × 11 1/32") for supporting the amplifier in bottom board of the cabinet.
3. Cut two holes for attachment bolts in the bottom board of the cabinet.
4. Remove the four rubber pads from the amplifier
5. Place the amplifier is in position through the cabinet window.
6. Make sure the amplifier is in position, then put the washers in butterfly bolts (supplied) and fix the amplifier to the cabinet with butterfly bolts.

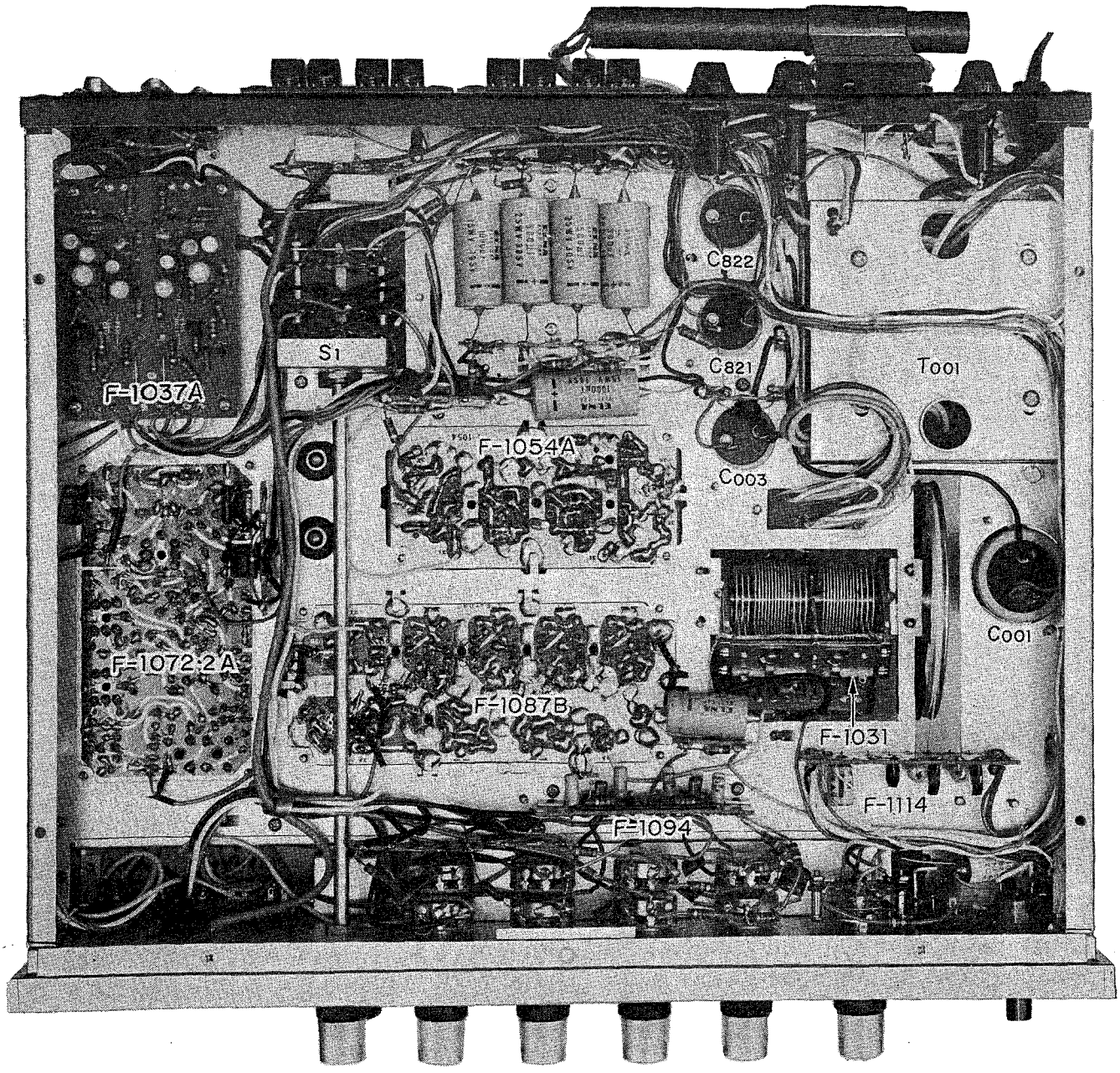
NOTE: When the amplifier is built into the cabinet the four rubber pads are not used Retain them for future use.

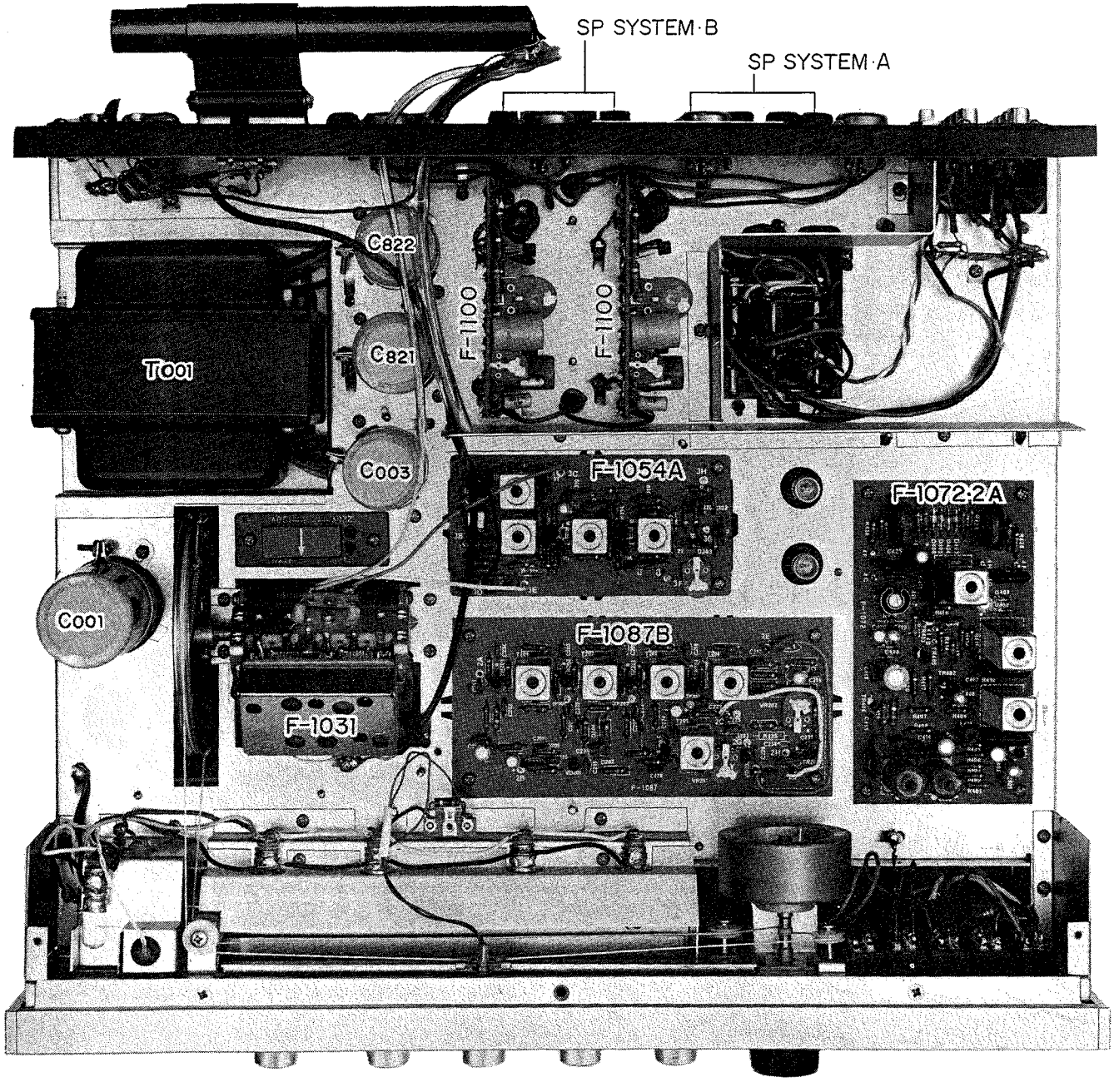



Width of front panel board
400m/m 15 14/16"
Front width of cabinet window
392m/m 15 7/16"
4m/m 5/32"
External dimension of panel
External dimension of cabinet
Height of window of cabinet
107m/m 4 7/32"
115m/m 4 17/32"
Height of panel board
4m/m 5/32"
20m/m □ 25/32"□
20m/m □ 25/32"□
280m/m 11 1/32"
320m/m 12 19/32"


Maximum dimension
107m/m 4 7/32"
19m/m 12/16"
Amplifier Fixing butterfly Bolts
140m/m 5 33/64"
Minimum dimension
Washers
10m/m 25/64"
30m/m 1 11/64"
280m/m 11 1/32"
160m/m 6 5/16"
350m/m 13 25/32"
Minimum dimension

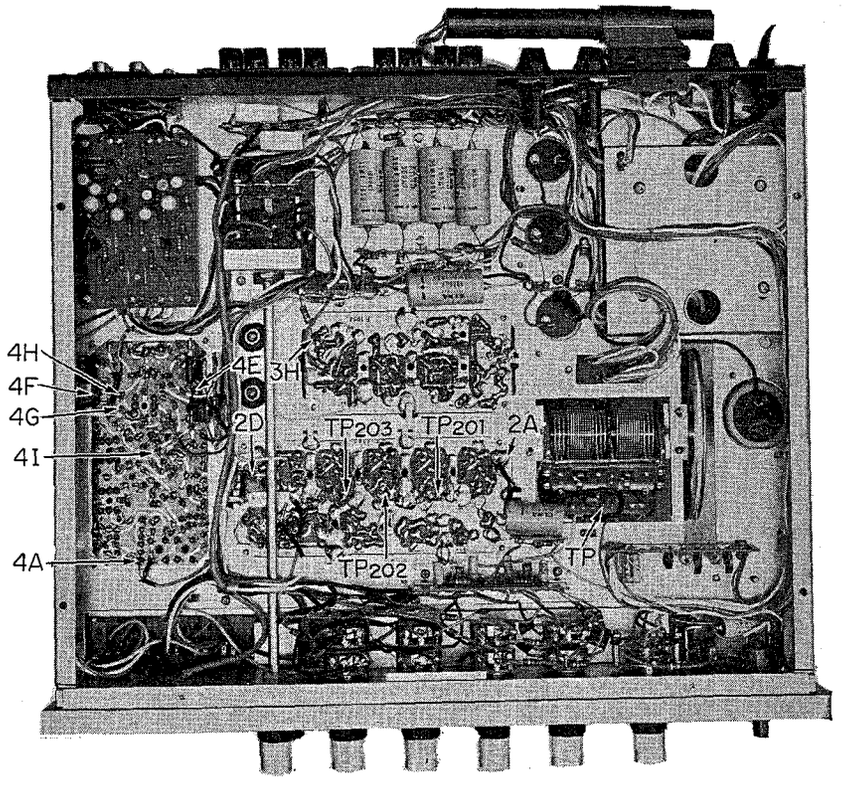
PARTS LAYOUT

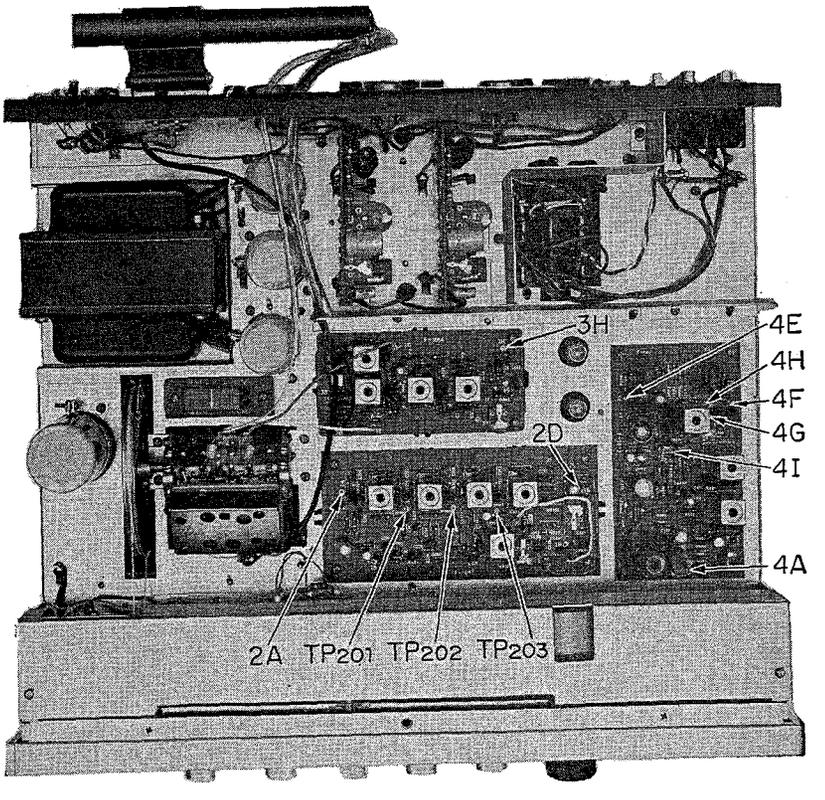



SP SYSTEM·B
SP SYSTEM·A
C822
C821
C003
C001
T001
F-1100
F-1100
F-1054A
F-1072·2A
F-1087B
F-1031

ALIGNMENT

TEST POINT



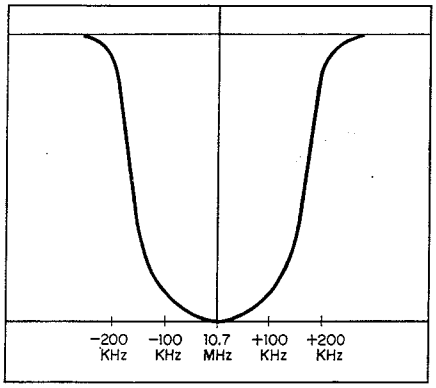


FM ALIGNMENT PROCEDURE

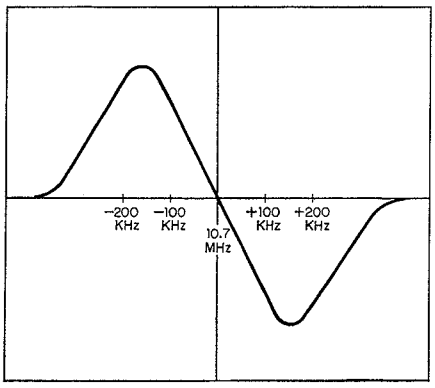
NOTE; To align, set the FM signal generator level to minimum turn tuning gang fully, center carrier wave, and set pointer to reference mark.

STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	IF Transformer	10.7M Hz ±200 kHz	Sweep signal is sent to TP_{101} via the 0.02μF ceramic capacitor	Oscilloscope is connected to TR_{202} emitter, and then TR_{205} collector to ground via the 0.02μF ceramic capacitor		Primary and secondary sides of T_{201}, T_{202}, and T_{203}	Best I.F.T. wave form
2.	Discriminator	10.7 MHz ±200 kHz	Sweep signal is sent to 2A via the 0.02μF ceramic capacitor	Oscilloscope is connected to 2K via the 0.05μF capacitor		FM Discriminator transformer T_{204} primary and secondary	S curve
3.	O.S.C	88 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	88 MHz	O.S.C. coil L_O	Maximum
4.	O.S.C.	108 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	108 MHz	O.S.C. trimmer TC_{104}	Maximum
5.	Repeat 3&4						
6.	RF Amp. Circuit	90 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	90 MHz	Antenna coil L_R, L_A and IF_1	Maximum
7.	RF Amp. Circuit	106 MHz 400 Hz 100% Modulation	To antenna terminals	Oscilloscope and V.T.V.M. at output load	106 MHz	Trimmer TC_A and TC_R	Maximum
8.	Repeat 6&7						

FM IF CHARACTERISTIC



FM DISCRIMINATOR CHARACTERISTIC



ALIGNMENT

FM MULTIPLEX ALIGNMENT PROCEDURE

1. Do not attempt to align the Multiplex Circuit unless the following equipment is available:

a. Multiplex Stereo Generator b. Oscilloscope c. AC. V.T.V.M. d. Audio Oscillator e. FM Signal Generator

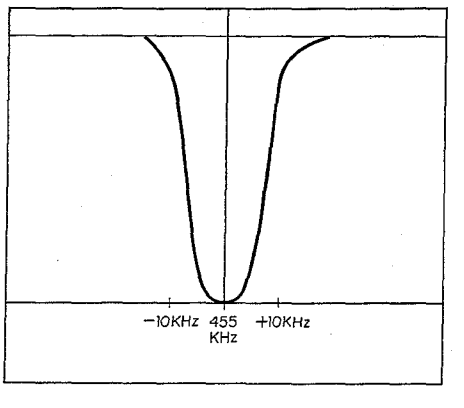
STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	ADJUST	ADJUST FOR
1.	67 kHz Trap	67 kHz Audio Signal	Connect to TP_{4A}	V.T.V.M. at 4 H	L_{403}	Minimum
2.	71 kHz Trap	71 kHz Audio Signal	Connect to TP_{4A}	V.T.V.M. at 4 H	L_{404}	Minimum
3.	19 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at 4 I	T_{401}, T_{402}	Maximum
4.	38 kHz Transformer	FM Signal Gen. Modulated 30% by STEREO Gen. sub-channel	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at 4 G	T_{403}	Maximum
5.	Separation VR	FM Signal Gen. Modulated 30% by STEREO Signal Gen. channel-L	Antenna terminals Tune to signal	V.T.V.M. and Oscilloscope at output load channel-R	VR(VR_{601})	Channel-R Minimum
6.	Repeat 5~6					

AM ALIGNMENT PROCEDURE

NOTE: To align, set the AM Signal Generator level to minimum

STEP	ALIGN	GENERATOR	FEED SIGNAL	OUTPUT INDICATOR	DIAL SETTING	ADJUST	ADJUST FOR
1.	I.F. Transformer	455 kHz ±30 kHz Sweep-generator	Antenna terminals	Oscilloscope and V.T.V.M. is connected to 3H		Primary and secondary sides from the lst I.F.T.(T_{302}~T_{304})	Best I.F.T. wave form
2.	O.S.C.	AM-generator 600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	600 kHz	O.S.C. Coil T_{301}	Maximum
3.	O.S.C.	AM-generator 1400 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1400 kHz	O.S.C. Trimmer cap. TC_{302}	Maximum
4.	Repeat 2 and 3						
5.	Antenna circuit	AM-generator 600 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	600 kHz	Ferrite bar Antenna coil L_{303}	Maximum
6.	Antenna circuit	AM-generator 1400 kHz 400 Hz 30% Modulation	Antenna terminals	Oscilloscope and V.T.V.M. at output load	1400 kHz	Antenna circuit Trimmer TC_{301}	Maximum
7.	Repeat 5 and 6						

AM IF CHARACTERISTIC

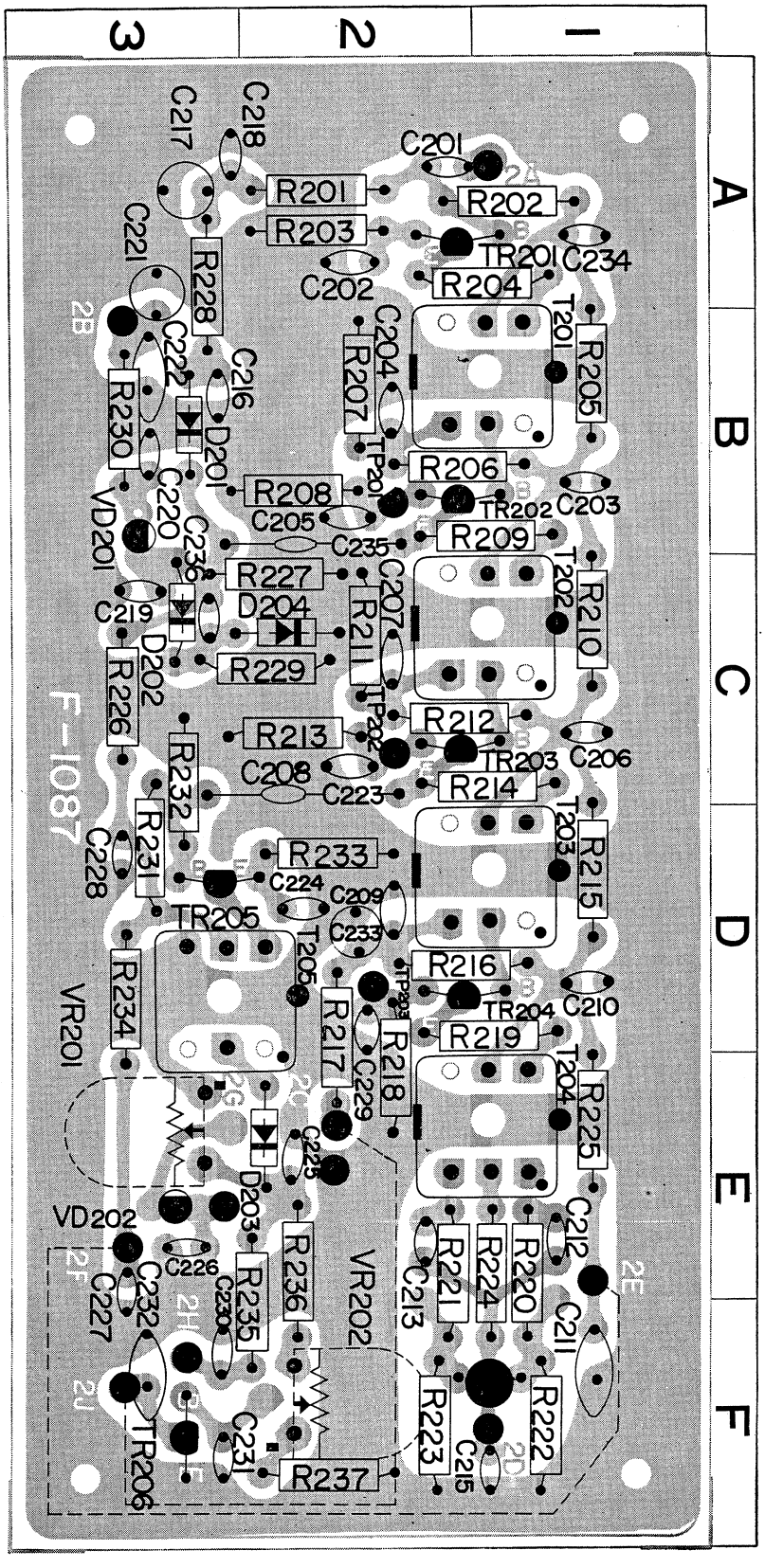


PRINTED CIRCUIT SHEETS AND PARTS LIST

FM IF BLOCK 〈F-1087B〉

X: Parts No **Y:** Parts Name **Z:** Position of Parts
(Co-ordinate number and letter in Printed circuit)

X	Y	Z
R201	4.7kΩ ±10% ¼W Carbon Resistor	2 A
R202	180kΩ ±10% ¼W Carbon Resistor	1 A
R203	390Ω ±10% ¼W Carbon Resistor	2 A
R204	560Ω ±10% ¼W Carbon Resistor	1 A
R205	22Ω ±10% ¼W Carbon Resistor	1 B
R206	12kΩ ±10% ¼W Carbon Resistor	2 B
R207	6.8kΩ ±10% ¼W Carbon Resistor	2 B
R208	1kΩ ±10% ¼W Carbon Resistor	2 B
R209	820Ω ±10% ¼W Carbon Resistor	1 B
R210	22Ω ±10% ¼W Carbon Resistor	1 C
R211	6.8kΩ ±10% ¼W Carbon Resistor	2 C
R212	10kΩ ±10% ¼W Carbon Resistor	2 C
R213	1kΩ ±10% ¼W Carbon Resistor	2 C
R214	680Ω ±10% ¼W Carbon Resistor	1 C
R215	22Ω ±10% ¼W Carbon Resistor	1 D
R216	10kΩ ±10% ¼W Carbon Resistor	2 D
R217	6.8kΩ ±10% ¼W Carbon Resistor	2 D
R218	1kΩ ±10% ¼W Carbon Resistor	2 E
R219	1kΩ ±10% ¼W Carbon Resistor	1 D
R220	1.5kΩ ±10% ¼W Carbon Resistor	1 E
R221	1kΩ ±10% ¼W Carbon Resistor	2 E
R222	10kΩ ±10% ¼W Carbon Resistor	1 F
R223	10kΩ ±10% ¼W Carbon Resistor	2 F
R224	68Ω ±10% ¼W Carbon Resistor	1 E
R225	22Ω ±10% ¼W Carbon Resistor	1 E
R226	100kΩ ±10% ¼W Carbon Resistor	3 C
R227	12kΩ ±10% ¼W Carbon Resistor	2 C
R228	1kΩ ±10% ¼W Carbon Resistor	3 A
R229	22kΩ ±10% ¼W Carbon Resistor	2 C
R230	39kΩ ±10% ¼W Carbon Resistor	3 B
R231	22kΩ ±10% ¼W Carbon Resistor	3 D
R232	10kΩ ±10% ¼W Carbon Resistor	3 C
R233	1kΩ ±10% ¼W Carbon Resistor	2 D
R234	22Ω ±10% ¼W Carbon Resistor	3 D
R236	39kΩ ±10% ¼W Carbon Resistor	2 E
R237	12kΩ ±10% ¼W Carbon Resistor	2 F
C201	1000pF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	2 A
C202	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	2 A
C203	0.02μF $^{+80}_{+20}$% 25 WV Ceramic Capacitor	1 B
C204	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	2 B
C205	0.02μF $^{+80}_{-20}$% 25W V Ceramic Capacitor	2 B
C206	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	1 C
C207	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	2 C
C208	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	2 C
C209	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	2 D
C210	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	1 D
C211	0.04μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	1 F
C212	220pF ±10% 50 WV Ceramic Capacitor	1 E
C213	220pF ±10% 50 WV Ceramic Capacitor	2 E
C214	10μF 10 WV Electrolytic Capacitor	1 F
C215	47pF ±10% 50 WV Ceramic Capacitor	3 B
C216	100pF ±10% 50 WV Ceramic Capacitor	3 B
C217	3.3μF 25 WV Electrolytic Capacitor	3 A
C218	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	3 A
C219	1000pF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	3 C
C220	1000pF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	3 B
C221	0.47μF 25 WV Al Electrolytic Capacitor	3 A
C222	0.04μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	3 B
C223	2.2pF ±10% 50 WV Ceramic Capacitor	2 C
C224	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	2 D
C225	0.01μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	2 E
C226	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	3 E
C227	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	3 E
C228	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	3 D
C229	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	2 D
C230		
C231	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	
C232	0.04μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	
C234	0.02μF $^{+80}_{-20}$% 25 WV Ceramic Capacitor	
C235	4.7pF ±10% 50 WV Ceramic Capacitor	
C236	47pF ±10% 50 WV Ceramic Capacitor	2 C
VR201	Semi-Variable Resistor 50kΩ(B) (103020)	2 F
VR202	Semi-Variable Resistor 200kΩ(B) (103035)	3 E
T201	FM IFT 10.7Mc (423532)	1 B
T202	FM IFT 10.7Mc (423533)	1 C
T203	FM IFT 10.7Mc (423533)	1 D
T204	FM Detector Transformer 10.7Mc (423534)	4 E
T205	FM Meter Transformer 10.7Mc (423529)	3 D
TR201	Transistor 2SC829 (000546-1)	2 A
TR202	Transistor 2SC829 (030546)	2 B
TR203	Transistor 2SC829 (030546)	2 C
TR204	Transistor 2SC829 (030546)	2 D
TR205	Transistor 2SC829 (030546-1)	3 D
TR206	Transistor 2SC828 (030527)	3 F
D201	Diode IN60 (031033)	3 B
D202	Diode IN60 (031033)	3 C
D203	Diode IN60 (031033)	3 E
D204	Diode IN60 (031033)	2 C
VD201	Varistor DS410 (031046)	3 B
VD202	Varistor DS410 (031046)	3 E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R235
R236
R237
TR201
TR202
TR203
TR204
TR205
TR206
T201
T202
T203
T204
T205
TP201
TP202
TP203
D201
D202
D203
D204
VD201
VD202
VR201
VR202
F-1087

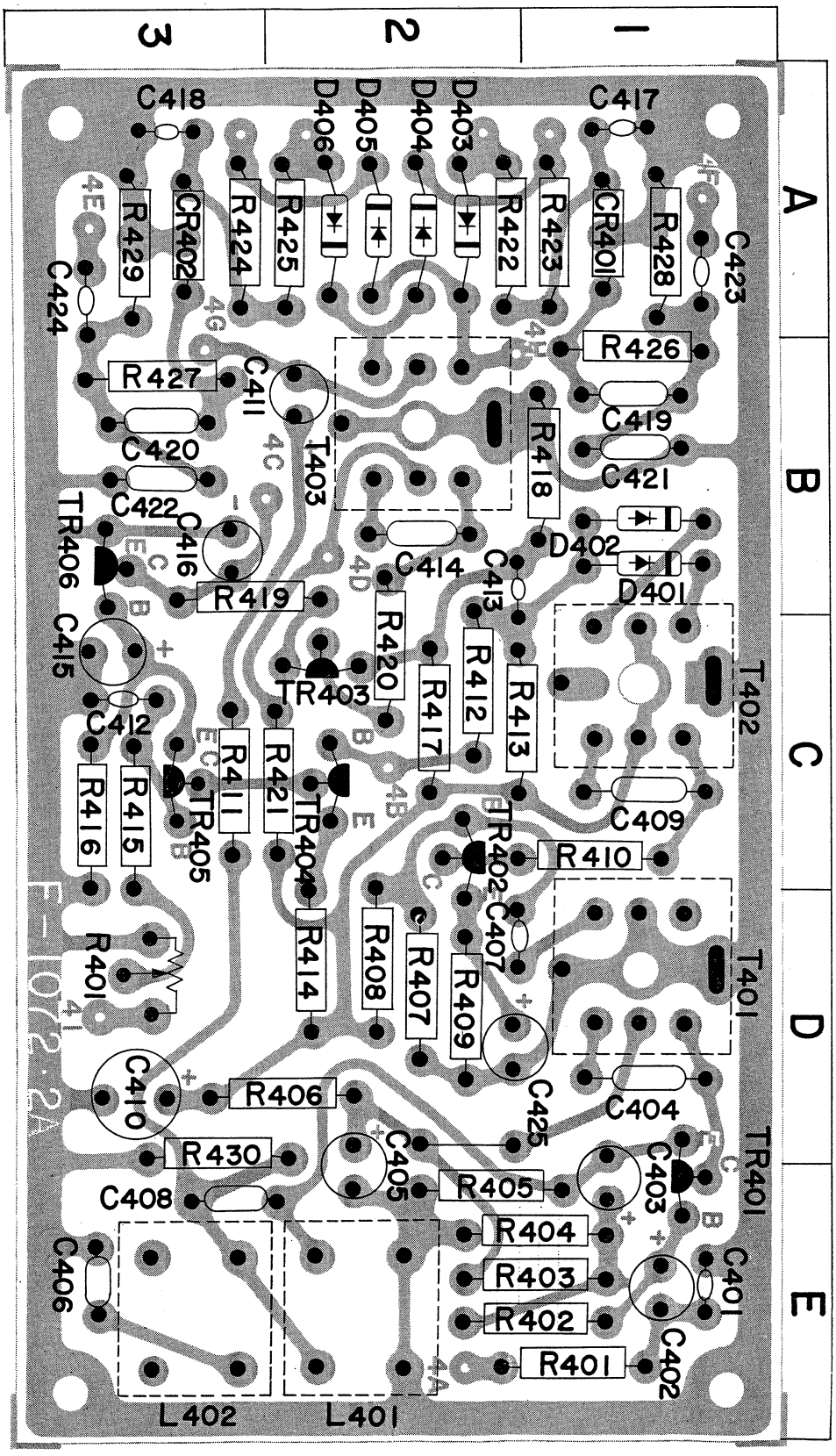
PRINTED CIRCUIT SHEETS AND PARTS LIST

FM MULTIPLEX 〈F-1072•2A〉

X	Y	Z
R401	1kΩ ±10% ¼W Carbon Resistor	1 E
R402	100kΩ ±10% ¼W Carbon Resistor	1 E
R403	100kΩ ±10% ¼W Carbon Resistor	1 E
R404	22kΩ ±10% ¼W Carbon Resistor	1 E
R405	680Ω ±10% ¼W Carbon Resistor	1 E
R406	100Ω ±10% ¼W Carbon Resistor	2 D
R407	22kΩ ±10% ¼W Carbon Resistor	2 D
R408	47kΩ ±10% ¼W Carbon Resistor	2 D
R409	2.2kΩ ±10% ¼W Carbon Resistor	2 D
R410	470Ω ±10% ¼W Carbon Resistor	1 C
R411	2.2kΩ ±10% ¼W Carbon Resistor	3 C
R412	10kΩ ±10% ¼W Carbon Resistor	2 C
R413	10kΩ ±10% ¼W Carbon Resistor	2 C
R414	3.3kΩ ±10% ¼W Carbon Resistor	2 D
R415	3.3kΩ ±10% ¼W Carbon Resistor	3 C
R416	1kΩ ±10% ¼W Carbon Resistor	3 C
R417	100kΩ ±10% ¼W Carbon Resistor	2 C
R418	18kΩ ±10% ¼W Carbon Resistor	1 B
R419	5.6kΩ ±10% ¼W Carbon Resistor	2 C
R420	470Ω ±10% ¼W Carbon Resistor	2 C
R421	47Ω ±10% ¼W Carbon Resistor	2 C
R422	22kΩ ±10% ¼W Carbon Resistor	1 A
R423	22kΩ ±10% ¼W Carbon Resistor	1 A
R424	22kΩ ±10% ¼W Carbon Resistor	3 A
R425	22kΩ ±10% ¼W Carbon Resistor	2 A
R426	100kΩ ±10% ¼W Carbon Resistor	1 A
R427	100kΩ ±10% ¼W Carbon Resistor	3 B
R428	220kΩ ±10% ¼W Carbon Resistor	1 A
R429	220kΩ ±10% ¼W Carbon Resistor	3 A
R430	10kΩ ±10% ¼W Carbon Resistor	3 E
C401	100pF ±20% 50 WV Ceramic Capacitor	1 E
C402	1μF 50 WV Electrolytic Capacitor	1 E
C403	33μF 6.3 WV Electrolytic Capacitor	1 E
C404	5000pF ± 5 % 50 WV Mica Capacitor	1 D
C405	10μF 25 WV Electrolytic Capacitor	2 E
C406	220pF ± 5 % 50 WV Mica Capacitor	3 E
C407	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 D
C408	1500pF ± 5 % 50 WV Mica Capacitor	3 E
C409	6800pF ± 5 % 50 WV Mica Capacitor	1 C
C410	47μF 25 WV Electrolytic Capacitor	3 D
C411	10μF 25 WV Electrolytic Capacitor	3 B
C412	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	3 C
C413	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	2 B
C414	1700pF ± 5 % 50 WV Mica Capacitor	2 B
C415	1μF 50 WV Electrolytic Capacitor	3 C
C416	10μF 10 WV Electrolytic Capacitor	3 B
C417	220pF ±20% 50 WV Ceramic Capacitor	1 A
C418	220pF ±20% 50 WV Ceramic Capacitor	3 A
C419	560pF ± 5 % 50 WV Mica Capacitor	1 B
C420	560pF ± 5 % 50 WV Mica Capacitor	3 B
C421	1000pF ± 5 % 50 WV Mica Capacitor	1 B
C422	1000pF ± 5 % 50 WV Mica Capacitor	3 B
C423	0.047μF ±10% 50 WV Mylar Capacitor	1 A
C424	0.047μF ±10% 50 WV Mylar Capacitor	3 A

X: Parts No **Y:** Parts Name **Z:** Position of Parts
(Co-ordinate number and letter in Printed circuit)

X	Y		Z
T401	19kHz Coil	(424028)	1 D
T402	19kHz Coil	(424029)	1 C
T403	38kHz Coil	(424029)	2 B
L401	Inductor 3.8mH	(424026)	2 E
L402	Inductor 23mH	(424027)	3 E
TR401	Transistor 2SC536E	(030515-4)	1 E
TR402	Transistor 2SC536E	(030515-4)	2 C
TR403	Transistor 2SC536E	(030515-4)	2 C
TR404	Transistor 2SA564(Por Q)	(030008-1)	2 C
TR405	Transistor 2SC536E	(030515-4)	3 C
TR406	Transistor 2SC458L(D)	(030531-2)	3 B
D401	Diod IN34A	(031040)	1 B
D402	Diod IN34A	(031040)	1 B
D403	Diod IN34A	(031040-1)	2 A
D404	Diod IN34A	(031040-1)	2 A
D405	Diod IN34A	(031040-1)	2 A
D406	Diod IN34A	(031040-1)	2 A
CR401	CR FP-38A	(080008)	1 A
CR402	CR FP-38A	(080008)	3 A

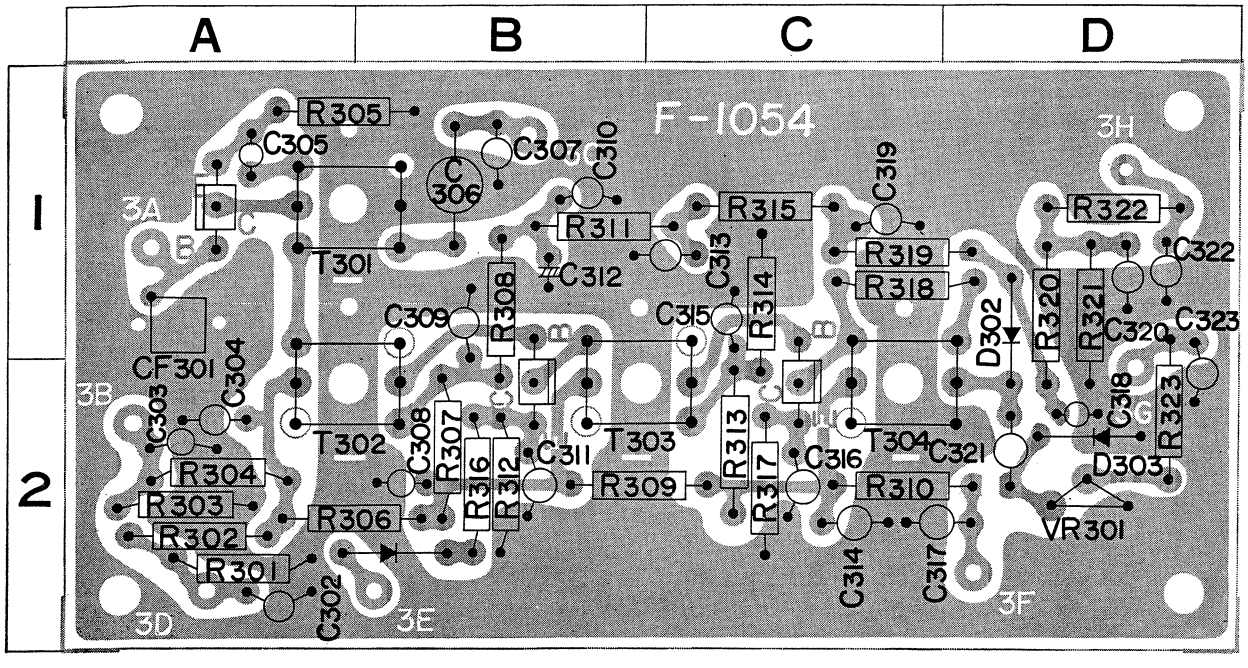

1
2
3
A
B
C
D
E
C417
C418
C423
C424
R428
R429
CR401
CR402
R422
R423
R424
R425
R426
R427
D403
D404
D405
D406
C411
C419
C420
C421
C422
T403
R418
D402
D401
C413
C414
C416
R419
R420
R412
R413
T402
C409
R410
TR406
C415
TR403
R417
TR402
C412
R416
R415
R411
R421
TR404
TR405
C407
R409
R408
R407
R414
R401
C410
R406
C425
C404
R430
C405
R405
C403
TR401
C408
R404
R403
R402
C401
C406
C402
R401
L402
L401
T401
E-1072-2A

PRINTED CIRCUIT SHEETS AND PARTS LIST

AM BLOCK 〈F-1054A〉

X: Parts No **Y:** Parts Name **Z:** Position of Parts
(Co-ordinate number and letter in Printed circuit)

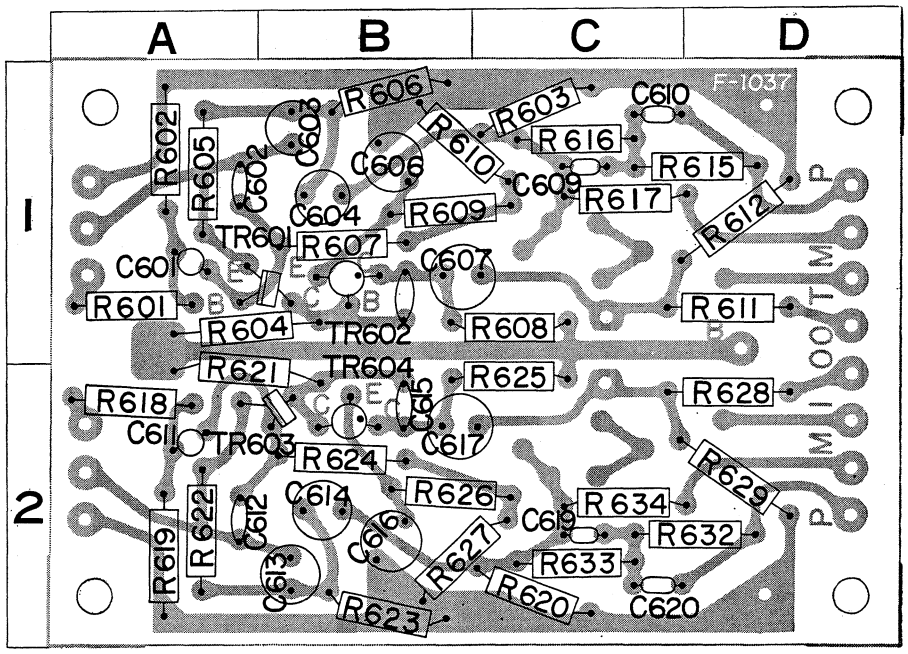
X	Y	Z
R301	3.3kΩ ±10% ¼W Carbon Resistor	2 A
R302	100kΩ ±10% ¼W Carbon Resistor	2 A
R303	3.9kΩ ±10% ¼W Carbon Resistor	2 A
R304	27kΩ ±10% ¼W Carbon Resistor	2 A
R305	1kΩ ±10% ¼W Carbon Resistor	1 A
R306	220Ω ±10% ¼W Carbon Resistor	2 A
R307	150kΩ ±10% ¼W Carbon Resistor	2 B
R308	12kΩ ±10% ¼W Carbon Resistor	1 B
R309	220Ω ±10% ¼W Carbon Resistor	2 B
R310	220Ω ±10% ¼W Carbon Resistor	2 C
R311	220Ω ±10% ¼W Carbon Resistor	1 B
R312	1kΩ ±10% ¼W Carbon Resistor	2 B
R313	27kΩ ±10% ¼W Carbon Resistor	2 C
R314	6.8kΩ ±10% ¼W Carbon Resistor	1 C
R315	220Ω ±10% ¼W Carbon Resistor	1 C
R316	100Ω ±10% ¼W Carbon Resistor	2 B
R317	1kΩ ±10% ¼W Carbon Resistor	2 C
R318	150kΩ ±10% ¼W Carbon Resistor	1 C
R319	10kΩ ±10% ¼W Carbon Resistor	1 C
R320	1kΩ ±10% ¼W Carbon Resistor	1 D
R321	10kΩ ±10% ¼W Carbon Resistor	1 D
R322	1kΩ ±10% ¼W Carbon Resistor	1 D
R323	1kΩ ±10% ¼W Carbon Resistor	2 D
C302	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	2 A
C303	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	2 A
C304	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	2 A
C305	0.01μF ±10% 50 WV Mylar Capacitor	1 A
C306	430pF ±10% 50 WV Mica Capacitor	1 B
C307	10pF ±10% 50 WV Ceramic Capacitor	1 B
C308	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	2 B
C309	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 B
C310	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 B
C311	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	2 B
C312	1μF 50 WV Electrolytic Capacitor	1 A
C313	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 C
C314	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	2 C
C315	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 C
C316	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	2 C
C317	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	2 C
C318	0.01μF ±10% 50 WV Mylar Capacitor	2 D
C319	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	1 C
C320	0.02μF ±10% 50 WV Mylar Capacitor	1 D
C321	0.02μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	2 D
C322	0.01μF ±10% 50 WV Mylar Capacitor	1 D
C323	0.04μF $^{+100}_{-0}$% 50 WV Ceramic Capacitor	2 D
VR301	Semi-Variable Resistor 20kΩ(B) (103046)	2 D
T301	AM OSC Coil (423017)	1 A
T302	455kHz IFT (423016)	2 A
T303	455kHz IFT (423015)	2 B
T304	455kHz IFT (423014)	2 C
TR301	Transistor 2SC829 (030546-1)	1 A
TR302	Transistor 2SC829 (030546-1)	2 B
TR303	Transistor 2SC829 (030546)	2 C
D301	Diode IN34A (031040)	2 B
D302	Diode IN34A (031040)	1 D
D303	Diode IN34A (031040)	2 D



EQUALIZER AMP ⟨F-1037A⟩

X	Y	Z
R601	1kΩ ±10% ¼W Carbon Resistor	1 A
R602	680kΩ ±10% ¼W Carbon Resistor	1 A
R603	4.7kΩ ±10% ¼W Carbon Resistor	1 A
R604	100kΩ ±10% ¼W Carbon Resistor	1 A
R605	1.8kΩ ±10% ¼W Carbon Resistor	1 A
R606	390Ω ±10% ¼W Carbon Resistor	1 B
R607	270kΩ ±10% ¼W Carbon Resistor	1 B
R608	6.8kΩ ±10% ¼W Carbon Resistor	1 C
R609	220Ω ±10% ¼W Carbon Resistor	1 B
R610	820Ω ±10% ¼W Carbon Resistor	1 B
R611	100Ω ±10% ¼W Carbon Resistor	1 D
R612	82kΩ ±10% ¼W Carbon Resistor	1 D
R615	22kΩ ±10% ¼W Carbon Resistor	1 D
R616	330kΩ ±10% ¼W Carbon Resistor	1 C
R617	8.2kΩ ±10% ¼W Carbon Resistor	1 C
R618	1kΩ ±10% ¼W Carbon Resistor	2 A
R619	680kΩ ±10% ¼W Carbon Resistor	2 A
R620	47kΩ ±10% ¼W Carbon Resistor	2 C
R621	100kΩ ±10% ¼W Carbon Resistor	2 A
R622	1.8kΩ ±10% ¼W Carbon Resistor	2 A
R623	390Ω ±10% ¼W Carbon Resistor	2 B
R624	270kΩ ±10% ¼W Carbon Resistor	2 B
R625	6.8kΩ ±10% ¼W Carbon Resistor	2 C
R626	220Ω ±10% ¼W Carbon Resistor	2 B
R627	820Ω ±10% ¼W Carbon Resistor	2 B
R628	100Ω ±10% ¼W Carbon Resistor	2 D
R629	82kΩ ±10% ¼W Carbon Resistor	2 D

X	Y	Z
R632	22kΩ ±10% ¼W Carbon Resistor	2 D
R633	330kΩ ±10% ¼W Carbon Resistor	2 C
R634	8.2kΩ ±10% ¼W Carbon Resistor	2 C
C601	1.5μF 15 WV Tantalum Capacitor	1 A
C602	150 pF ±10% 50 WV Ceramic Capacitor	1 A
C603	33μF 6.3 WV Electrolytic Capacitor	1 B
C604	33μF 6.3 WV Electrolytic Capacitor	1 B
C605	150 pF ±10% 50 WV Ceramic Capacitor	1 B
C606	47μF 6.3 WV Electrolytic Capacitor	1 B
C607	10μF 50 WV Electrolytic Capacitor	1 B
C609	0.01μF ±10% 50 WV Mylar Capacitor	1 C
C610	0.0033μF ±10% 50 WV Mylar Capacitor	1 C
C611	1.5μF 15 WV Tantalum Capacitor	2 A
C612	150 pF ±10% 50 WV Ceramic Capacitor	2 A
C613	33μF 6.3 WV Electrolytic Capacitor	2 B
C614	33μF 6.3 WV Electrolytic Capacitor	2 B
C615	150 pF ±10% 50 WV Ceramic Capacitor	2 B
C616	47μF 6.3 WV Electrolytic Capacitor	2 B
C617	10μF 50 WV Electrolytic Capacitor	2 B
C619	0.01μF ±10% 50 WV Mylar Capacitor	2 C
C620	0.0033μF ±10% 50 WV Mylar Capacitor	2 C
TR601	Transistor 2SC458LG (030531-1)	1 B
TR602	Transistor 2SC281 (030512-2)	1 B
TR603	Transistor 2SC458LG (030531-1)	2 B
TR604	Transistor 2SC281 (030512-2)	2 B

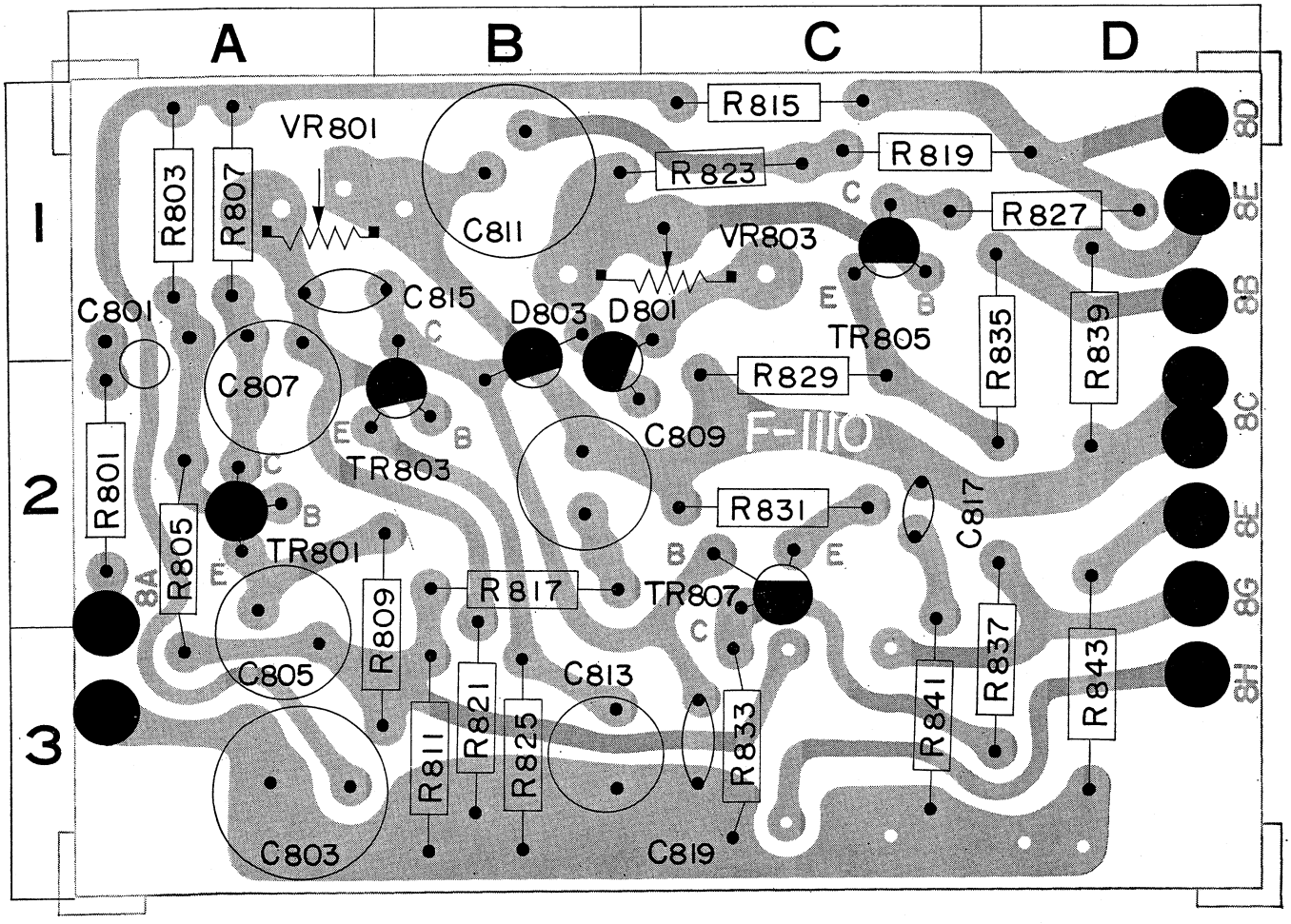


PRINTED CIRCUIT SHEETS AND PARTS LIST

MAIN AMP 〈F-1100〉

X: Parts No **Y:** Parts Name **Z:** Position of Parts
(Co-ordinate number and letter in Printed circuit)

X	Y	Z
R801	2.2kΩ ±10% ¼W Carbon Resistor	2 A
R802	2.2kΩ ±10% ¼W Carbon Resistor	2 A
R803	680kΩ ±10% ¼W Carbon Resistor	1 A
R804	680kΩ ±10% ¼W Carbon Resistor	1 A
R805	150kΩ ±10% ¼W Carbon Resistor	1 A
R806	150kΩ ±10% ¼W Carbon Resistor	1 A
R807	4.7kΩ ±10% ¼W Carbon Resistor	1 A
R808	4.7kΩ ±10% ¼W Carbon Resistor	1 A
R809	3.3kΩ ±10% ¼W Carbon Resistor	3 A
R810	3.3kΩ ±10% ¼W Carbon Resistor	3 A
R811	100Ω ±10% ¼W Carbon Resistor	3 B
R812	100Ω ±10% ¼W Carbon Resistor	3 B
R815	22kΩ ±10% ½W Solid Resistor	1 C
R816	22kΩ ±10% ½W Solid Resistor	1 C
R817	8.2kΩ ±10% ¼W Carbon Resistor	2 C
R818	8.2kΩ ±10% ¼W Carbon Resistor	2 C
R819	1kΩ ±10% ¼W Carbon Resistor	1 C
R820	1kΩ ±10% ¼W Carbon Resistor	1 C
R821	6.8kΩ ±10% ¼W Carbon Resistor	3 B
R822	6.8kΩ ±10% ¼W Carbon Resistor	3 B
R823	4.7kΩ ±10% ¼W Solid Resistor	1 C
R824	4.7kΩ ±10% ½W Solid Resistor	1 C
R825	120Ω ±10% ¼W Carbon Resistor	3 B
R826	120Ω ±10% ¼W Carbon Resistor	3 B
R827	10Ω ±10% ¼W Carbon Resistor	1 D
R828	10Ω ±10% ¼W Carbon Resistor	1 D
R829	220Ω ±10% ¼W Carbon Resistor	2 C
R830	220Ω ±10% ¼W Carbon Resistor	2 C
R831	33Ω ±10% ¼W Carbon Resistor	2 C
R832	33Ω ±10% ¼W Carbon Resistor	2 C
R833	220Ω ±10% ¼W Carbon Resistor	3 C
R834	220Ω ±10% ¼W Carbon Resistor	3 C
R835	10Ω ±10% ¼W Carbon Resistor	1 D
R836	10Ω ±10% ¼W Carbon Resistor	1 D
R837	10Ω ±10% ¼W Carbon Resistor	3 D
R838	10Ω ±10% ¼W Carbon Resistor	3 D
R839	0.7Ω ±10% 1 W Wire-Wound Resistor	1 D
R840	0.7Ω ±10% 1 W Wire-Wound Resistor	1 D
R841	10Ω ±10% ½W Solid Resistor	3 C
R842	10Ω ±10% ½W Solid Resistor	3 C
R843	0.7Ω ±10% 1 W Wire-Wound Resistor	3 D
R844	0.7Ω ±10% 1 W Wire-Wound Resistor	3 D
C801	1μF 50 WV Electrolytic Capacitor	1 A
C802	1μF 50 WV Electrolytic Capacitor	1 A
C803	100pF 50 WV Electrolytic Capacitor	3 A
C804	100μF 50 WV Electrolytic Capacitor	3 A
C805	100μF 6.3 WV Electrolytic Capacitor	3 A
C806	100μF 6.3 WV Electrolytic Capacitor	3 A
C807	1μF 50 WV Electrolytic Capacitor	1 A
C808	1μF 50 WV Electrolytic Capacitor	1 A
C809	10μF 50 WV Electrolytic Capacitor	2 B
C810	10μF 50 WV Electrolytic Capacitor	2 B
C811	47μF 50 WV Electrolytic Capacitor	1 B
C812	47μF 50 WV Electrolytic Capacitor	1 B
C813	100μF 6.3 WV Electrolytic Capacitor	3 B
C814	100μF 6.3 WV Electrolytic Capacitor	3 B
C815	47pF ±10% 50 WV Ceramic Capacitor	1 A
C816	47pF ±10% 50 WV Ceramic Capacitor	1 A
C817	0.04μF ±10% 50 WV Mylar Capacitor	2 C
C818	0.04μF ±10% 50 WV Mylar Capacitor	2 C
C819	300pF ±10% 50 WV Ceramic Capacitor	3 C
C820	300pF ±10% 50 WV Ceramic Capacitor	3 C
VR801	200kΩ(B) Semi-Variable Resistor (103015)	
VR802	200kΩ(B) Semi-Variable Resistor (103015)	
VR803	200Ω(B) Semi-Variable Resistor (103012)	
VR804	200Ω(B) Semi-Variable Resistor (103012)	
TR801	2SC281 Transistor (030512-1)	2 A
TR802	2SC281 Transistor (030512-1)	2 A
TR803	2SC734 Transistor (030536-1)	2 B
TR804	2SC734 Transistor (030536-1)	2 B
TR805	2SC734 Transistor (030536-1)	1 C
TR806	2SC734 Transistor (030536-1)	1 C
TR807	2SA561 Transistor (030010-1)	2 B
TR808	2SA561 Transistor (030010-1)	2 B
D801	DS410 Varistor (031046)	2 B
D802	DS410 Varistor (031046)	2 B
D803	DS410 Varistor (031046)	1 B
D804	DS410 Varistor (031046)	1 B


A
B
C
D
1
2
3
R803
R807
VR801
C811
R815
R819
R823
C
R827
VR803
C801
C815
D803
D801
E
B
TR805
R835
R839
C807
C
R829
E
B
TR803
C809
F-110
R801
C
B
R831
C817
R805
TR801
B
E
8A
E
R809
R817
TR807
C
C805
C813
R821
R825
R811
R833
R841
R837
R843
C803
C819
8D
8E
8B
8C
8F
8G
8H

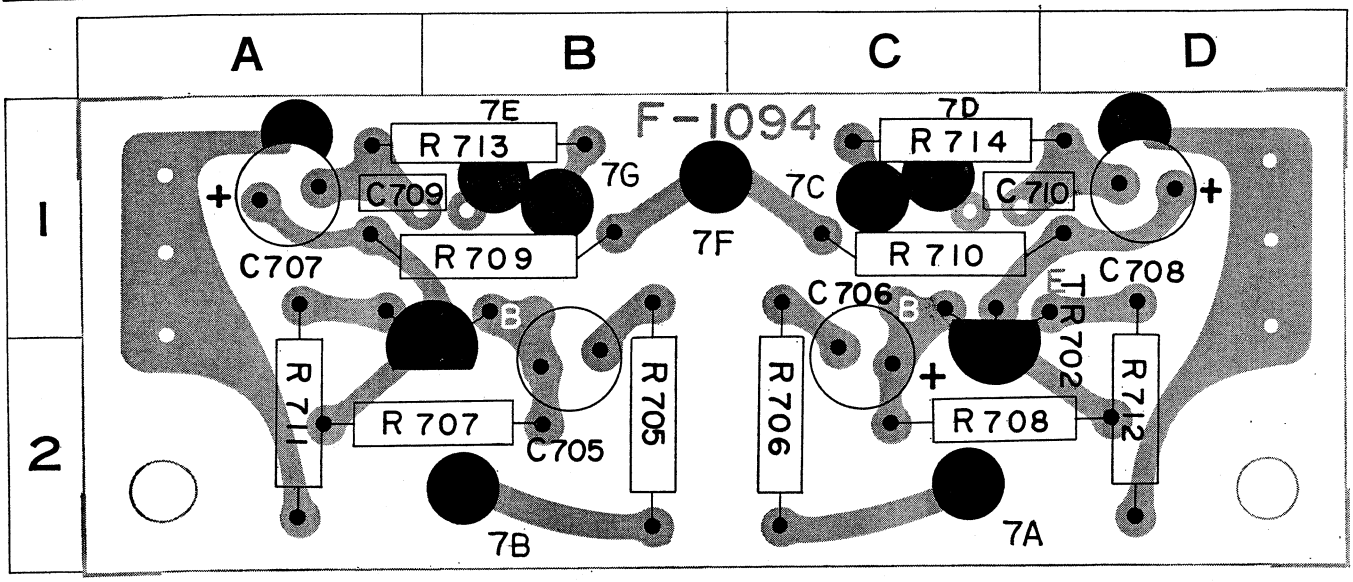
PRINTED CIRCUIT SHEETS AND PARTS LIST

TONE CONTROL AMP 〈F-1094〉

X	Y	Z
R705	1kΩ ±10% ¼W Carbon Resistor	2 B
R706	1kΩ ±10% ¼W Carbon Resistor	2 C
R707	1MΩ ±10% ¼W Carbon Resistor	2 B
R708	1MΩ ±10% ¼W Carbon Resistor	2 C
R709	15kΩ ±10% ¼W Carbon Resistor	1 B
R710	15kΩ ±10% ¼W Carbon Resistor	1 C
R711	560Ω ±10% ¼W Carbon Resistor	2 A
R712	560Ω ±10% ¼W Carbon Resistor	2 D
R713	18kΩ ±10% ¼W Carbon Resistor	1 B
R714	18kΩ ±10% ¼W Carbon Resistor	1 C

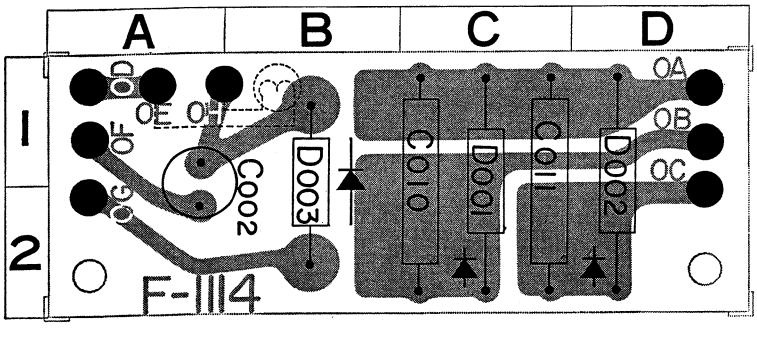
X: Parts No **Y:** Parts Name **Z:** Position of Parts
(Co-ordinate number and letter in Printed circuit)

X	Y	Z
C705	1μF 50 WV Electrolytic Capacitor	2 B
C706	1μF 50 WV Electrolytic Capacitor	2 C
C707	3.3μF 25 WV Electrolytic Capacitor	1 A
C708	3.3μF 25 WV Electrolytic Capacitor	1 D
C709	0.001μF ±10% 50 WV Mylar Capasitor	1 B
C710	0.001μF ±10% 50 WV Mylar Capasitor	1 C
TR601	Transistor 2SC458 LG (C) (030531-1)	1 B
TR602	Transistor 2SC458 LG (C) (030531-1)	1 C



POWER 〈F-1114〉

X	Y	Z
D001	SW-1-02 Diode (031055)	1 C
D002	SW-05-02 Diode (035017)	1 D
D003	SW-05-02 Diode (031017)	1 B
C002	220μF 10 WV Electrolytic Capacitor	1 A
C010	0.01μF 400 WV Oil Condenser	1 C
C011	0.01μF 400 WV Oil Condenser	1 C



OTHER PARTS CHART AND LIST

OTHER PARTS LIST

X	Y	
R120	680Ω ±10% ¼W Carbon Resistor	
R121	68Ω ±10% ¼W Carbon Resistor	
C120	0.02μF $^{+100}_{0}$% 50 WV Ceramic Capacitor	
T101	300 : 75Ω (F-1010)	
S8	SL 13-8-10H Slide Switch	(111004)
R334	10kΩ ±10% ¼W Carbon Resistor	
R335	6.8kΩ ±10% ¼W Carbon Resistor	
C301	0.04μF $^{+100}_{0}$% 50WV Ceramic Capacitor	
C324	0.01μF ±10% 50WV Mylar Capacitor	
VC301 TC301	F-1010 AM Variable Capacitor	(081015)
L302	1μH Coil	(429003)
L303	ARS-48A Antenna Coil	(420010)
R431	3.3MΩ ±10% ½W Solid Resistor	
C428	470pF ±10% 50 WV HIQ Capacitor	
PL401	6V 30mA Pilot Lamp	(040011)
R635	100kΩ ±10% ¼W Carbon Resistor	
R636	4.7kΩ ±10% ¼W Carbon Resistor	
R637	100Ω ±10% ¼W Carbon Resistor	
R638	100kΩ ±10% ¼W Carbon Resistor	
R639	220kΩ ±10% ¼W Carbon Resistor	
R640	220kΩ ±10% ¼W Carbon Reristor	
R641	100kΩ ±10% ¼W Carbon Resistor	
R642	100kΩ ±10% ¼W Carbon Resistor	
R643	4.7kΩ ±10% ¼W Carbon Resistor	
R644	68kΩ ±10% ¼W Carbon Resistor	
R645	68kΩ ±10% ¼W Carbon Resistor	
VR601	10kΩ(B) Variable Resistor	(100502)
C621	0.002μF ±10% 50WV Mylar Capacitor	
R701	12kΩ ±10% ¼W Carbon Resistor	
R702	12kΩ ±10% ¼W Carbon Resistor	
R703	15kΩ ±10% ¼W Carbon Resistor	
R704	15kΩ ±10% ¼W Carbon Resistor	
R705	22kΩ ±10% ¼W Carbon Resistor	
R706	22kΩ ±10% ¼W Carbon Resistor	
R717	12kΩ ±10% ¼W Carbon Resistor	
R718	12kΩ ±10% ¼W Carbon Resistor	
R719	3.9kΩ ±10% ¼W Carbon Resistor	
R720	3.9kΩ ±10% ¼W Carbon Resistor	
R721	1.2kΩ ±10% ½W Solid Resistor	
R722	1.2kΩ ±10% ½W Solid Resistor	
R723	1MΩ ±10% ¼W Carbon Resistor	
R724	1MΩ ±10% ¼W Carbon Resistor	

X: Parts No **Y:** Parts Name

X	Y	
C701	180pF ±10% 50 WV HIQ Capacitor	
C702	180pF ±10% 50 WV HIG Capacitor	
C703	0.022μF ±10% 50 WV Mylar Capacitor	
C704	0.022μF ±10% 50 WV Mylar Capacitor	
C711	0.01μF ±10% 50 WV Mylar Capacitor	
C712	0.01μF ±10% 50 WV Mylar Capacitor	
C713	0.1μF ±10% 50 WV Mylar Capacitor	
C714	0.1μF ±10% 50 WV Mylar Capacitor	
C715	0.01μF ±10% 50 WV Mylar Capacitor	
C716	0.01μF ±10% 50 WV Mylar Capacitor	
C717	0.007μF ±15% 50 WV Mylar Capacitor	
C718	0.007μF ±10% 50 WV Mylar Capacitor	
R845	390Ω ±10% ½W Solid Resistor	
R846	390Ω ±10% ½W Solid Resistor	
R847	180Ω ±10% 3 W	
R848	180Ω ±10% 3 W	
C821	2000μF 35 WV Electrolytic Capacitor	(020527)
C822	2000μF 35 WV Electrolytic Capacitor	(020527)
VR701 VR702	Balance Variable Resistor	(103034)
VR703 VR704	Volume, Variable Resistor	(101035)
VR705 VR706	Treble, Variable Resistor	(102005)
VR707 VR708	Variable Variable Resistor	(102005)
TR809	2SD180 Power Transistor	(030806-1～3)
TR810	2SD180 Power Transistor	(030806-1～3)
TR811	2SD180 Power Transistor	(030806-1～3)
TR812	2SD180 Power Transistor	(030806-1～3)
F801	2.5A Quick Acting Fuse	(043011)
F802	2.5A Quick Acting Fuse	(043011)
PL801	25V 90mA Pilot Lamp	(040007)
PL802	25V 90mA Pilot Lamp	(040007)
R001	120Ω ±10% ½W Carbon Resistor	
R002	47Ω ±10% ½W Solid Resistor	
R003	270Ω ±10% ½W Solid Resistor	
R004	560Ω ±10% ½W Solid Resistor	
R005	560Ω ±10% ½W Solid Resistor	
R006	2.2kΩ ±10% ½W Solid Resistor	
R007	1kΩ ±10% ½W Solid Resistor	
R008	1.8kΩ ±10% ½W Solid Resistor	
R009	1kΩ ±10% ½W Solid Resistor	
C001	2000μF 60 WV Electrolytic Capacitor	(020519-1)
C003	2000μF 35 WV Electrolytic Capacitor	(020527)
C004	330μF 35 WV Electrolytic Capactior	
C005	470μF 25 WV Electrolytic Capactior	
C006	470μF 25 WV Electrolytic Capactior	
C007	1000μF 16 WV Electrolytic Capactior	

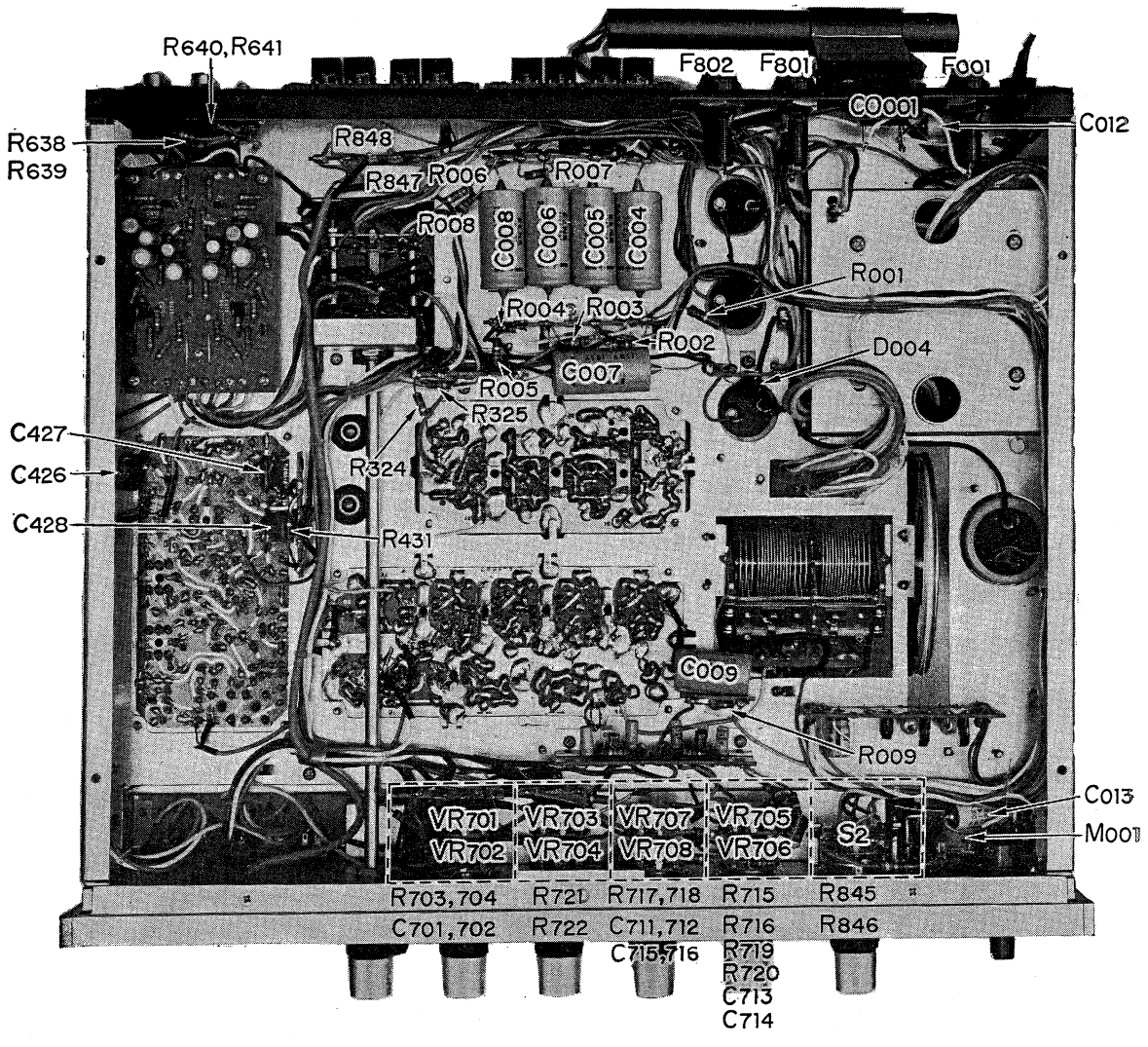
OTHER PARTS CHART AND LIST

OTHER PARTS LIST

X	Y	
C008	1000μF 16 WV Electrolytic Capacitor	
C009	330μF 25 WV Electrolytic Capacitor	
C012	0.0047μF 600WV Oil Capacitor	
C013	0.033μF 600WV Oil Capacitor	
S1(a~i)	Selector Switch	(110317)
S2(a~d)	Speaker Switch	(110111)
S3(a, b)	SJ-1855 Lever Switch	(117006)
S4(a, b)	SJ-1855 Lever Switch	(117006)
S5(a, b)	SJ-1855 Lever Switch	(117006)
S6(a, b)	SJ-1855 Lever Switch	(117006)
S7(a, b)	SJ-1855 Lever Switch	(117006)
S001	EUQA8E R11 Power Switch	(113009)
D004	Diode SW-05-02	(031017)
T001	Power Transformer 400-5312	(400040)

X: Parts No **Y:** Parts Name

X	Y		
F001	Power Fuse 2.5A GTD		(043025)
PL001	Pilot Lamp 6.3V 250mA		(040008)
PL002	Pilot Lamp 6.3V 250mA		(040008)
PL003	Pilot Lamp 6.3V 250mA		(040008)
PL004	Pilot Lamp 6.3V 250mA		(040008)
PL005	Pilot Lamp 6.3V 250mA		(040008)
PL006	Pilot Lamp 8V 150mA		(040008)
PL007	Pilot Lamp 5V 60mA		(040010)
CO001	AC Consent 2P		(245001)
PU001	Voltage Selector	X-B0001	(241008)
		X-10001	(241009)
J001	Headphone Jack 3P 64M		(243007)
J002	DIN Jack S-1 8113		(243004)



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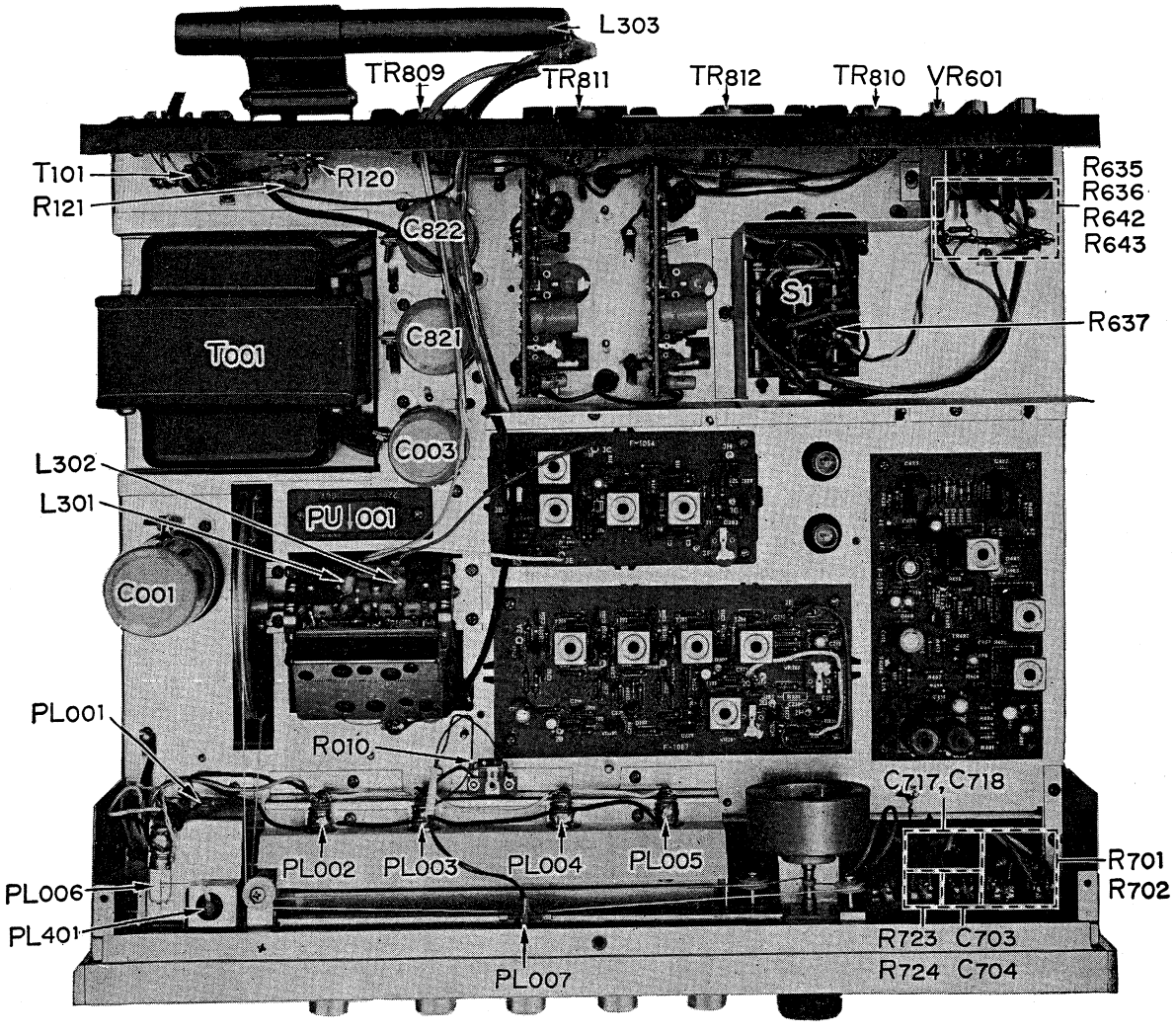

Sansui®

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Printed in Japan (49040M5)